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MONIQUE SCHAFFER

Hawai'i State Energy Office - Monique.m.schafer@hawaii.gov - 808-349-3052

EDUCATION

Master of Environmental Science and Management, University of California, Santa Barbara 2017

Bachelor of Science, Environmental Science, Hawai'i Pacific University, 2015

Professional Certificate in Sustainable Infrastructure Systems, Massachusetts Institute of Technology, 2022

RELEVANT SKILLS

Carbon accounting and life cycle GHG analysis; environmental law, policy, and resource management; project management; state procurement law compliance; regulatory compliance.

EXPERIENCE

Hawai'i State Energy Office

Decarbonization Program Manager

July 2023 – Present

- Coordinating and managing the development of the state's first economy-wide decarbonization strategy, which in accordance with Act 238 (2022) to "analyze pathways and develop recommendations for achieving the State's economy-wide decarbonization goals".
- Performing complex research and technical analysis to inform the development of policy to effectively implement and accelerate state decarbonization efforts to achieve the State's Zero Emissions Clean Economy Target, pursuant to Hawai'i Revised Statutes Section 225P-5.
- Assembling and providing key information, analyses, reports, and other materials for presentation to or consideration by the public, industry stakeholders, decision-makers, community groups, or others as needed.
- Reviewing and providing comments on state and county climate plans as they relate to decarbonization in the energy sector.
- Providing technical expertise on greenhouse gas emissions associated with projects and programs reviewed and/or implemented by the HSEO. Examples include but are not limited to completing or reviewing lifecycle analysis (LCA) as it pertains to emissions associated with the renewable fuels production tax credit and reviewing lifecycle emissions claims for energy-proposed projects under development.
- Drafting testimony and technical comments on proposed legislation impacting the State's decarbonization efforts.
- Overseeing the procurement of contracts
- Support HSEO efforts to analyze, communicate, and engage with organizations, experts, communities, permitting agencies, regulators, project developers, decision-makers, task forces, the public, and others regarding siting, sizing, financing, bidding, permitting, and interconnecting renewable, microgrid, and other energy projects in Hawai'i.
- Supporting HSEO efforts to improve processes to appropriately site, affordably price, efficiently permit, and complete renewable energy projects in Hawai'i.

Renewable Energy Project Specialist

June 2021 – July 2023

- Manage administrative tasks for the Powering Past Coal Task Force (PPCTF) including the tracking of renewable energy projects implementation and distributed energy resource (DER)

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program. Conduct regular follow-ups with Hawaiian Electric and developers to help prioritize permits and identify critical paths to ensure swift project completion to achieve adequate renewable energy capacity to safely and affordably retire O'ahu's last coal plant.

- Regularly track Public Utilities Commission (PUC) dockets for major renewable energy projects and programs throughout the state. Dockets tracked include the dockets for active renewable energy projects, Hawaiian Electric's competitive bidding for renewable energy acquisition, the community-based renewable energy, DER, the West Kauai Energy Project, Puna Geothermal Venture, and the Integrated Grid Planning docket. Provided formal comments for the Hawaiian Electric Stage 3 Request for Proposals.
- Completed formal comments on environmental review for planned energy projects including the West Kauai Energy Project and Land Use Commission permit application approvals for PPCTF projects.
- Assist with legislative and city council testimony on topics including the renewable energy real property tax, and the City and County of Honolulu Land Use Ordinance and associated wind setbacks.
- Provide technical and data analysis support for public, media, and legislative inquiries.
- Manage the Energy Office's Statewide Project Directory and other GIS databases.
- Conducted geospatial wind setback analysis to inform policy discussion.

Environmental Health Specialist IV | State of Hawai'i, Department of Transportation - Airports

October 2018 - May 2021

- Ensured the Department's compliance with all applicable stormwater permits, including the airports' National Pollution Discharge Elimination System (NPDES) Small Municipal Separate Storm Sewer System (MS4) permits and NPDES industrial permits, and Underground Injection Control permits for state-operated airports.
- Managed and maintained the asset management database which tracks environmental assets, tenant and property management records; and corresponding inspection records for airport tenants.
- Assisted in the oversight of four environmental consultants and maintenance contracts.
- Led the development of a new asset management and inspection software system that automated the inspection process to ensure that environmental records were appropriately maintained for tenants and facilities.
- Managed, reviewed, and conducted environmental and stormwater inspections for industrial and construction stormwater pollutants in accordance with the Clean Water Act, Resource Conservation and Recovery Act, Toxic Substances Control Act, and Safe Drinking Water Act.
- Organized and participated in education and community outreach activities and developed training materials, as required by airport permits.

Environmental Planner | AECOM Honolulu

July 2017 – October 2018

- Completed and assisted with various environmental compliance documentation including Hawaii Revised Statutes (HRS) Chapter 343; the US Clean Water Act Sections 401, 402, and 404; Endangered Species Act, Essential Fish Habitat Consultation, Coastal Zone Management consistency and determination, Special Management Area permits, and HRS Section 6E historic preservation consultation.
- Developed maps and graphics and maintained GIS databases for various civil engineering and planning projects.

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- Served as the primary author for major Environmental Impact Statements and Environmental Assessments for local government clients. Authored sections included sections on the biological environment, climate and air quality, noise, topography, geology and hydrology, and water quality.
- Analyzed the effects of sea level rise under various scenarios on coastal civil engineering projects in Hawai'i.
- Assisted with proposals for future project acquisitions.

Economics Teaching Assistant | UCSB Economics Department Santa

Barbara, CA January 2017 – June 2017

- Developed course materials and taught weekly supplemental courses to undergraduate students covering microeconomic and macroeconomic theory and principles.
- Substitute lectures covering material in environmental economics for over 200 students.

Marine Conservation Intern | Environmental Defense Center

Santa Barbara, CA October 2016 – December 2016

- Researched the validity of claims made by a large oil company regarding the effects of increased oil drilling on coastal and marine resources in the Santa Barbara Channel to draft comments in response to the Draft Environmental Impact Report for submission to the California State Lands Commission.
- Assessed impacts of reduced oil seepage from increased drilling and the associated effects of the decreased seepage on criteria air pollutants in the region.

Marine National Monument Graduate Researcher | National Oceanic and Atmospheric Administration (NOAA), Pacific Island Fisheries Science Center, Coral Reef Ecosystem Program (CREP), Honolulu, HI

June 2016 – September 2016

- Conducted temporal and spatial analysis of biological data for NOAA's CREP using R statistical analysis and graphics software and ArcGIS mapping software.
- Collaborated with NOAA scientists and managers to begin the development of a comprehensive monitoring report for the Pacific Remote Islands Marine National Monument (PRIMNM) to help achieve the scientific mission of CREP and inform effective implementation of ecosystem-based management and conservation.
- Collaborated as part of an interdisciplinary team to develop a multi-metric composite index to summarize current biological and oceanic conditions in the PRIMNM.

TECHNICAL SKILLS

Research and Analytical Skills: understanding of economic, environmental, political, and regulatory issues surrounding energy and clean transportation policy in Hawai'i; familiarity with the current grid needs assessment and integrated grid planning process with Hawaiian Electric; familiarity with the Power Supply Improvement Plan; experience with life cycle assessments and the greenhouse gas protocol; experience with legislative tracking at the state and county level; experience reading civil, mechanical, and electrical record drawings; ability to quickly learn new subject matters.

Computer Skills: Advanced in Microsoft Word, Excel, PowerPoint, Project, and Outlook.

Leah Laramee

Hawai'i State Climate Change Mitigation And Adaptation Commission, Honolulu, HI

Ph: 808-895-1477 Email: Leah.J.Laramee@Hawaii.gov

Education

Richmond University, The American International University in London, B.A. International Relations, 2005

University of Hawai'i M.S. Natural Resource Management, 2015

Experience

CLIMATE CHANGE MITIGATION AND ADAPTATION COORDINATOR, HAWAI'I CLIMATE CHANGE MITIGATION AND ADAPTATION COMMISSION, HONOLULU, HI June 2022-Present

- Develop statewide climate policy.
- Successful grant writing and management to facilitate climate action.
- Manage \$3,000,000 contracts
- Facilitate relationships between federal, state, county and community partners on climate change action.

NATURAL RESOURCE PLANNER, DEPARTMENT OF LAND AND NATURAL RESOURCES, HONOLULU, HI, January 2018-May 2022

- Division lead on climate change adaptation and mitigation including statewide carbon credit program and develop ecosystem climate vulnerability planning.
- Successful grant writing to conserve and enhance long-term sinks and reservoirs of GHG.
- Manage \$5,000,000 contracts

NATIVE ECOSYSTEMS LIAISON, DEPARTMENT OF LAND AND NATURAL RESOURCES, HONOLULU, HI, October 2011-January 2018

- Supervised Native Ecosystems Protection and Management Section Interns.
- Project manager for Native Ecosystems Protection and Management Section Geodatabase.
- State lead in the bid to host the 2016 IUCN WCC.

AMERICORPS KUPU MEMBER, DEPARTMENT OF LAND AND NATURAL RESOURCES HONOLULU, HI, October 2010- September 2011

- Planned and facilitated meetings, symposium and conferences.
- Researched and wrote grants for land acquisition for conservation purposes.

RON CHATTERJEE

Hawai'i State Energy Office – Rounak.chatterjee@hawaii.gov - 808-470-9522

EDUCATION

Bachelor of Science, Mechanical Engineering, Calvin University, 2017

RELEVANT SKILLS

GHG accounting of the built environment sector and individual projects – building operational and embodied carbon analysis, marginal grid emissions analysis/optimization, and refrigerant emissions analysis; Building energy efficient design – Net Zero Energy & optimized building envelope design for commercial and multifamily sectors; Built environment energy/carbon efficiency policy – adoption and implementation of building energy codes, stretch codes, and building performance standards for existing buildings.

EXPERIENCE

Hawai'i State Energy Office

Energy Efficiency Specialist

December 2023 – Present

- Coordinating & leading federal energy code grant applications for the State of Hawai'i via the Inflation Reduction Act (IRA) and Infrastructure Investment and Jobs Act (IIJA).
- Technical analysis of building sector energy use and emissions reductions via statewide energy code implementation – including a proposal for Hawai'i's first Building Performance Standard directed at improving the energy efficiency and emissions of existing buildings.
- Reviewing and providing technical expertise on new state building projects designs to optimize energy efficiency and Scope 1 and Scope 2 GHG emissions.
- Scheduling and providing energy code related training seminars to local jurisdiction permitting divisions and design communities.
- Technical analysis and implementation planning of Grid-Interactive Efficient Buildings (GEBs) in O'ahu's grid, focusing on building energy demand flexibility to shift energy use to off-peak hours to reduce grid-based emissions and improve grid performance.
- Drafting testimony and technical comments on proposed legislation impacting the State's decarbonization & energy efficiency efforts.
- Overseeing state contract procurements.

Energy Analyst/Building Performance Consultant | Rushing Co., Seattle, WA

May 2022 - October 2023

- Co-developed Rushing's initial MEP2040 company strategy focusing on mitigating its embodied and operational carbon footprints on all future projects per the Carbon Leadership Forum's MEP 2040 Commitment.
- Focused on detailed building envelope analyses of mid-rise and high-rise multifamily buildings to ensure compliance with the Seattle and Washington State Energy Codes.
- Developed building energy models for code compliance and third-party sustainability certifications (LEED, Built Green, ILFI Living Building, etc.).
- Developed building energy models for optimized district energy systems with a focus on integrating heat recovery chillers and air-to-water heat pumps in existing gas boiler-based heating systems. Analyzed building compatibility for shared district energy systems via modeled and measured seasonal building heating and cooling loads.

RON CHATTERJEE

Hawai'i State Energy Office – Rounak.chatterjee@hawaii.gov - 808-470-9522

- In-house research on grid based marginal emissions modeling and accounting to design future buildings per hourly emissions data to optimize “avoided scope 2 building emissions” for the Seattle City Light/Puget Sound Energy and wider PNW grid.

Building Performance Specialist/Energy Services Team Lead | Ecotope, Inc., Seattle, WA

September 2021 – April 2022

- Managed the company’s Energy Services team. Responsibilities included process standardization, project proposal writing, and staffing forecasting.
- Analyzed and provided technical assistance to third party building energy models with a focus on accuracy of modeled commercial heat pump water heater systems.
- Developed building energy models for multiple multi-family projects.
- Conducted grid optimization research studies for Seattle City Light focusing on heat pump water heaters, regulated and un-regulated EV charging, and PV systems’ potential to shift peak building energy loads while minimizing associated scope 2 emissions.

Mechanical Engineer | PAE Consulting Engineers, Seattle WA

February 2019 – August 2021

- Developed Building Energy Models for LEED, Passive House, Washington, and Seattle Energy Code compliance.
- Developed sustainable campus master plan reports for a high-end ski and lifestyle resort – analysis included investigating available climate resources, estimated energy & water usage demands, and related emissions impacts.
- Spearheaded and improved companywide corporate GHGe emissions (scopes 1-3) tracking for 2020 to align with The GHG Protocol and B-Corp standards.
- HVAC, Plumbing, and Energy design experience for Net Zero Energy, Net Zero Carbon, and Net Zero Water certified building projects.

TECHNICAL SKILLS

Research and Analytical Skills: Expertise in GHGe accounting per GHG Protocol, refrigerant management analysis, HVAC & Plumbing design, building envelope analysis and design, and marginal grid emissions analysis for mitigating building scope 2 emissions. Experience with legislative tracking at the state and county level, state energy code policy design and implementation.

Computer Skills: Building Energy Modeling software (IES-VE, THERM, Wufi, Trane Trace, DOE 2, cove.tool), Construction Modeling (Revit, CAD & BlueBeam), MS Excel.

PROFESSIONAL EXPERIENCE

City and County of Honolulu, Office of Climate Change, Sustainability and Resiliency Honolulu, HI

Chief Resilience Officer and Executive Director

January 2021 – Present

- Manage a team of approximately 20 staff and an annual budget of approximately \$2.5M, and an array of federal, state, and private philanthropic grants in support of personnel and projects (historically ≥1:1 external funding to City general funding).
- Oversaw the finalization and adoption of the City's first-ever climate action plan (2021).
- Oversaw the development, finalization, and adoption of the City's first-ever climate adaptation strategy (2024).
- Initiated the development of the City's first-ever Long-Term Disaster Recovery Plan (draft 2024).
- Initiated the development of Climate Change Design Guidelines for public projects (in-development).
- Convened and co-lead the City's eight agency One Water Climate Adaptation Panel as required by Ord. 20-47.
- Developed and/or ushered the adoption of new City policies including an update of the Building Energy Conservation Code (Ord. 23-25); a Better Buildings Benchmarking Program (Ord. 22-17), and updates to both the Shoreline Setbacks (Ord. 23-3) and Special Management Area (Ord. 23-4) ordinances.
- Served on the hiring panel for the Department of Parks and Recreation Division of Urban Forestry Administrator (2023).
- Serve as the City's FEMA National Flood Insurance Program Community Rating System (CRS) Coordinator to reduce flood losses and improve flood insurance affordability.

Coastal and Water Program Manager

October 2017 – December 2020

- Led the development of the City's *Ola: O'ahu Resilience Strategy*, including management of 2 of 5 stakeholder working groups and islandwide community engagement through Neighborhood Boards and with City Council members.
- Drafted both Mayor's Directive 18-2 (actions to address climate change and sea level rise) and Directive 20-14 (actions to address increasing temperatures and the urban tree canopy).
- Co-facilitated the City Resilience Team for development and implementation of the City's Resilience Strategy.
- Initiated the development of the City's first-ever climate adaptation strategy, *Climate Ready O'ahu* (currently draft).
- Supervised and mentored 12 AmeriCorps VISTAs, office interns/City Po'okela Fellows, and University of Hawai'i/Hawai'i Pacific University Fellows, and conducted 7 internal City trainings with more than 200 City employees on climate change and Mayor's Directive 18-2.

University of Hawai'i Sea Grant College Program

Honolulu, HI

Extension Agent, Community Planning & Design

March 2012 – October 2017

- Developed and led a portfolio of extension work and grant-funded projects focused on coastal resilience, green stormwater infrastructure, community engagement, and sustainability performance metrics, monitoring, and information management.
- Supported the City and County of Honolulu's application for, and early management of, its award from the Rockefeller Foundation's 100 Resilient Cities program.
- Co-created the Hawai'i and Pacific Islands King Tides Community Science Program.
- Supervised and mentored six Hawai'i Sea Grant Peter J. Rappa Sustainable Coastal Development Fellows.

Town of Smithtown, Planning & Community Development Department

Smithtown, NY

Planner

December 2006 – August 2008

- Served as the staff planner liaison to the Board of Zoning Appeals (BZA), reviewed variance applications and prepared recommendations, reports, and plans for the BZA.
- Led Coastal Consistency reviews for conformance with the Town's Local Waterfront Revitalization Program (i.e., coastal zone management program).
- Conducted community/applicant consultation, physical planning assessments, and community and science data collection for plan development and planning applications' assessments.

CERTIFICATIONS

American Institute of Certified Planners (AICP)

January 2013

Status: Member in good standing since January 2013. Member Number: 026183

Certified Floodplain Manager (CFM)

August 2017

Status: Member in good standing since August 2017. Member Number: US-17-09899

Certified Citizen Forester

October 2017

Status: Trained and certified through the Kaulunani Urban & Community Forestry Program, HI State Dept. of Land & Natural Resources, Division of Forestry & Wildlife

LEADERSHIP & SERVICE

Hawai'i Chapter of the American Planning Association

Vice President

January 2021 – December 2023

Director at Large

January 2014 – December 2020

Programs Committee (Co-Chair 2018-2021)

January 2013 – Present

Chapter-University of Hawai'i Department of Urban and Regional Planning Liaison

January 2013 – December 2020

NOAA Climate Adaptation Partnership (CAP) Pacific Research on Island Solutions for Adaptation (RISA), Phase IV: Building Equitable and Just Climate Solutions for Pacific Island Resilience to Compound Disasters and Extreme Events

Advisory Committee Member

March 2023 – Present

University of Hawai'i Sea Grant College Program

Panel of Advisors Member

January 2021 – Present

Trees for Honolulu's Future

Board Member

January 2019 – Present

Kaulunani Urban & Community Forestry Program Advisory Council

Member, HI State Dept. of Land & Natural Resources, Div. of Forestry & Wildlife

January 2015 – December 2021

Better Block Hawai'i

Co-Founder (2013) and Board Member

January 2015 – December 2018

McCully-Mo'ili'ili Neighborhood Board

Board Member (Treasurer; Vice Chair)

2012 – 2013; 2016 – 2017

Urban Land Institute Hawai'i

Member and Management Committee

2013 – 2017

Hawai'i Chapter of the American Society of Landscape Architects

Member and Director at Large

2012 – 2013

GRANTS MANAGEMENT & CITY AWARDS

Office of Climate Change, Sustainability and Resiliency

April 2017 – Present

City and County of Honolulu

Private Philanthropy (\$4,410,000; HCF = Hawai'i Community Foundation)

Rockefeller Foundation – 100 Resilient Cities Initiative (\$1,000,000, total direct and in-kind)

April 2017 – April 2019

Ulupono Fund (HCF) – Office capacity building (\$360,000)

November 2017 – June 2023

Elemental Excelsior (Emerson Collective) – Office capacity building (\$300,000)

April 2018 – June 2023

Funders Network – Climate planning (\$75,000)

April 2018 – December 2021

Nat. Res. Cons. End. Fund (HCF) – Climate planning cost match (\$30,000)

April 2018 – December 2021

Koanini Fund (HCF) – Climate planning cost match (\$45,000)

May 2018 – December 2021

Oak Foundation (HCF) – County sustainability network, positions (\$300,000)

November 2018 – June 2023

Bloomberg Philanthropies – American Cities Climate Challenge (\$2,000,000 in-kind)

December 2018 – June 2021

Ulupono Fund (HCF) – Federal grant cost match (\$100,000)

July 2019 – June 2024

Harold K.L. Castle Foundation – Climate planning (\$200,000; \$100,000/yr for 2 yrs)

July 2023-Present

Federal agencies & number of awards; totals to date (\$20,266,248; \$4,403,680 pending)

AmeriCorps VISTA – City-wide program (in-kind approx. \$800,000/yr)

May 2018 – August 2023

American Rescue Plan Act (2021) State and Local Fiscal Recovery Funds (SLFRF)

5; \$6,264,459

Dept. of Agriculture (USDA)

5; \$546,127

Dept. of Defense (DOD)

1; \$1,243,893

Dept. of Energy (DOE)

1 under review; \$844,500

Dept. of Transportation (DOT)

2; \$2,950,000

Environmental Protection Agency (EPA)

2; \$2,000,000

Federal Emergency Management Agency (FEMA)

10; \$3,641,769

Forest Service (USFS)

2; \$1,600,000

National Oceanic and Atmospheric Administration (NOAA)

1; \$20,000 (in-kind)

EDUCATION

Cornell University

Ithaca, NY

Master of Regional Planning | Dept. of City and Regional Planning

January 2012

Master of Landscape Architecture | Dept. of Landscape Architecture

January 2012

Bachelor of Science | Dept. of Natural Resources (now Dept. of Natural Resources and the Environment)

May 2006

BEN SULLIVAN

Honolulu, HI | 808-635-4615 | pacificsullivan@gmail.com | <https://www.linkedin.com/in/bsullivankauai/>

EXPERIENCE

JUNE 2023- present

Deputy Director City & County Office of Climate Change Sustainability & Resiliency (CCSR)

- Support the Executive Director in implementing climate action and adaptation goals of the City
- Support other City agencies with executing on established climate action, adaptation, and sustainability goals
- Develop programs in collaboration with key partners to advance climate goals

JUNE 2021-JUNE 2023

Energy Program Manager City & County Office of Climate Change Sustainability & Resiliency (CCSR)

- Developed and led office efforts for major programs and policies including Building Benchmarking, Energy Codes, and others
- Led City team to implement the City's Climate Action Plan, supporting City agencies to advance the 9 strategies and 47 actions established in the plan

DECEMBER 2011 - JUNE 2021

Energy & Sustainability Coordinator Kauai County Office of Economic Development

- Supported County team in reducing operations electricity use by 20% and cost by 30%
- Facilitated electricity and fuel saving projects across County agencies including building retrofits, LED street light replacement, municipal carshare, and vehicle electrification

MARCH 2009 - DECEMBER 2011

Director, Strategic Planning Chair Kauai Island Utility Cooperative Board of Directors Lihue HI

- Led development of board's utility strategy to achieve industry leading renewable energy goals
- Navigated utility through community challenges specific to smart grid implementation and utility development of hydropower projects
- Steered utility investment to renewable projects in lieu of additional fossil fuel infrastructure

EDUCATION

1995

University of Colorado Boulder

Bachelor of Environmental Design

Statement of Qualifications

Experienced and passionate for designing and overseeing projects, programs, and policies to improve organization functions and efficiency while prioritizing environmental impacts of operations. Proficient in communications and building rapport among diverse teams across multiple fields to achieve common goals. Fast learner with the self-initiative and organizational skills required to effectively manage multiple projects that focus on sustainable concepts to improve environmental, social, and economic benefits for communities and involved stakeholders

Education

B.A. Environmental Policy and Sustainable Management - Bowling Green State University, 2019

Experience

Sustainability Specialist (Full Time) at County of Hawai'i Department of Research and Development
January 2023 - Present:

- Coordinating and managing projects and programs to advance sustainability initiatives aligned with State and County goals, targets, and objectives;
- Collecting data and creating a framework for monitoring economic industries, social demographics, and regional environmental quality to run spatial analyses to better understand socioeconomic trends and potential disparities;
- Securing and coordinating grant opportunities with other industry specialists to meet present needs of communities, to assist organizations in building capacity, and to leverage resources for economic development;
- Monitoring municipal operations and establishing an ESG reporting framework for the County;
- Grants and contract management for federal, state, and county grants;
- Established Office of Sustainability, Climate Change, Equity, and Resilience, and drafted office duties, guidelines, and policies.

Legislative Assistant (Full Time) at County of Hawai'i, Council District 4 (Puna, Hawai'i Island)
January 2021 - January 2023:

- Managed legislative projects, identifying proper government and regulatory processes and procedures to achieve legislative outcomes with a focus on equity, resiliency and sustainability;
- Convened multiple working groups across sectors to quickly assess needs and outlining policy and project life cycles;
- Researched, analyzed, and drafted legislation; policy and programmatic design; coordinated agendas and drafting reports on Committee discussions and outcomes;
- Accounted, reviewed, and managed non profit grant applications that align with policy initiatives and provide public benefits;
- Worked closely with FEMA and the Eruption Recovery Team to coordinate community engagement and public feedback for disaster recovery and infrastructure projects.

Community Resilience Specialist (Full Time) at County of Hawai'i Department of Research and Development
September 2019 - September 2020:

- Developed and managed the First Draft Climate Action Plan;
- Policy development to decrease emissions within interdisciplinary fields: energy, transportation, public health, food security, waste management, equity, disaster recovery and local community development;
- Identified, analyzed, and engaged relevant stakeholders for project implementation across interdisciplinary fields;
- Assisted program specialists in community planning and program development of initiatives with interdisciplinary goals and targets that prioritize sustainable concepts;
- Conducted greenhouse gas inventory for government operations using ICLEI Software;
- Managed data inventory and updated Department data systems and public information; tracked constituent input systems to ensure timely response
- Systems development and alternative scenario planning to recommend improvements to organizational functions

Board Member and Crew Leader (Part Time) at Pōhāhā I Ka Lani 501(c)(3) Non Profit

October 2020 - March 2023:

- Board member advisory role on organization operations, programs, financing, and execution of mission;
- Crew leader experience with leading teams and volunteer groups on stewardship excursions, Native Hawaiian cultural education, conservation field work, and traditional and indigenous agriculture;
- Advised and reviewed grant applications to fund organizational needs.

Core Competencies:

Budget Analysis; Data Analysis and Management; Confidentiality Handling; Organization; Strategic Planning; Program Design; System Flow Development; Project Management; IT Lead; Report Author; Researcher; Office Administration; Schedule/Timeline Management; Grant Management; Grant Review; Grant Writing; Stakeholder Engagement; Customer Service/Relations; Documentation; System Analysis and Improvement; UN Sustainable Development Goals; ESG Reporting; GHG Inventory.

Additional Experience/Skills

- **Software** - expert skills in Word, Excel, Powerpoint, and misc. computer applications (Google Drive, Microsoft, Apple etc); Basic GIS and Spatial Analyses skills
- **Communications** - experienced in public speaking, presenting and communicating across diverse audiences; customer service; community engagement
- **Reporting** - proficient in effectively summarizing reports, speeches, research results and policy details
- **Data analysis** - manage and understand raw data to identify trends, impacts of decision making, and areas of improvement
- **Project Management** - coordinated First Draft Climate Action Plan project, managed various legislative projects and community initiatives simultaneously; expert in working within multiple interdisciplinary teams
- **Facilitation and Mediation** - led meetings of diverse stakeholders and interests to produce actionable and effective outcomes; experienced in establishing and maintaining partnerships to leverage assets and knowledge to achieve common goals
- **Programmatic and System Design** - developed documentation and flow of programs and systems to meet operational need

References

- **Frecia Cevallos**; Deputy Director; Hawai'i County Research and Development; 808-961-8505
- **Dennis Kauka Jr.**; Community Development Specialist; Housing and Community Development; 808-961-8379
- **Chasity Quihano**; Assistant to Council Chair; County Council; 808-936-6295

Notable Projects

Hawai'i County Climate Action Plan (2020)

Hawai'i County Integrated Climate Action Plan (2023)

Hawai'i County 2015 Greenhouse Gas Inventory

Hawai'i County Tourism Strategic Plan

Research and Development 2019-2020 Annual Report

Grants

Rural Placemaking Innovation Challenge USDA Grant, \$250,000

EPA Climate Pollution Reduction Grant, \$350,000



ANA ESPAÑOLA

RELEVANT WORK EXPERIENCE

Sustainability Coordinator

County of Kaua'i, Office of Economic Development | Feb 2021 - present

- Project manager of \$300,000 EPA Communitywide Assessment Grant to conduct outreach, environmental site assessments (Phase I & II), remedial and reuse planning for sites in Kekaha.
- Collaborate with the County's Resilience Team to develop the County's Climate Adaptation & Action Plan.
- Implement youth engagement programs, such as the Youth Climate Practitioners class, to foster a green workforce on island.
- Manage sustainability projects (i.e. commercial composting, restorative aquaculture, off-grid villages) funded by the Office of Economic Development's Innovation Grant program.
- Oversee accounting for federal grants and adept in utilizing EPA's ASAP system for reimbursements and budget tracking.
- Seek and apply for grant funding opportunities (NOAA, IRA, EPA).

Long Range Community Planner

City of Pasadena, Planning Department | Jun 2016 - Nov 2020

- Develop mitigation measures, implement, and track the city's first Climate Action Plan (CAP) in accordance with California Environmental Quality Act (CEQA) Guidelines Section 15183.5. Develop Annual Reports for City Commission and Council.
- Project lead to update two specific plans (Lincoln Avenue Specific Plan and Fair Oaks/ Orange Grove Specific Plan) for the Our Pasadena program, manage multiple timelines and budgets.
- Develop GIS database to identify land use consistencies between General Plan Land Use Map and the eight Specific Plans of City.
- Outreach lead for the Our Pasadena Program, organize equitable engagement strategies, conduct workshops, design educational materials, manage program website.
- Manage grant funding of up to \$3,000,000 from California Department of Transportation and compile reporting documents

Planning Analyst

Tierra West Advisors | April 2014 - May 2016

- Develop GIS maps and conducted outreach for Huntington Park's General Plan Update to address land use, housing, and circulation.
- Authored and assisted with community outreach for the Northeast LA Riverfront Collaborative Vision Plan.

Student Professional Worker- City Planning

Los Angeles Department of City Planning | Nov 2013 - May 2016

- Design and develop outreach materials to synthesize technical data for several policy initiatives for the Boyle Heights Community Plan and City of LA Hillside Neighborhoods.
- Engage with 14 neighborhoods under the Neighborhood Conservation Initiative to determine appropriate zoning options.

CONTACT

4614 Hale'ilio Rd, Unit E
Kapa'a, HI 96746
anacarmelae@gmail.com
(424) 558- 7292
www.linkedin.com/in/acespanola

EDUCATION

University of California, Berkeley
Double Major
B.A. in Architecture
B.A. in Gender & Women Studies

SKILLS SUMMARY

- Microsoft Office
(Word, Excel, Powerpoint)
- Adobe Suite
(Illustrator, Photoshop, InDesign)
- ESRI Software
(ArcGIS, StoryMaps, Survey123)
- Infographic Software
(Piktochart, Canva)
- Website Communication
(Mailchimp, Wordpress)
- Project Management

CERTIFICATION

LEED Green Associate

HONORS & AWARDS

American Planning Association
Award in Excellence in Green
Community Planning
Pasadena Climate Action Plan
Top Urban Planners under 40

Contact

ckaser@kauai.gov

Top Skills

Contract Negotiation
Government Procurement Policy
Writing

Languages

English (Native or Bilingual)

Honors-Awards

Castro Valley High School
Highest Honors
UC Berkeley Dean's List

Publications

Options for WTO Negotiations on
Agriculture Domestic Support
Kauai Destination Management
Action Plan 2021-2023
Rural China will gain if Beijing
cultivates change in farm support
schemes
Japan Reports Fall in Trade-
Distorting Farm Subsidies in New
WTO Figures
My Favorite Berkeley Connect
Moment

Christina Kaser

Energy Coordinator at County of Kaua'i
Lihue, Hawaii, United States

Summary

Studied Society & Environment with an emphasis in Global Environmental Politics at the University of California, Berkeley. Passionate about climate policy and mitigation strategies through the implementation of renewable energy sources, transportation electrification, and transportation mode shift.

Experience

County of Kaua'i

4 years

Energy Coordinator

July 2021 - Present (2 years 9 months)

Program manager for Clean Energy and Transportation sectors

- Project lead for www.GetAroundKauai.com. Content development and website contributions.
- Project manager for Department of Energy technical assistance grant at \$250,000 value from the "Energy Transitions Initiative Partnership Project" to study electrification of transportation and mode shift on Kauai. Facilitated 1.5 year study with Hawaii-based stakeholder group.
- Procured contractor services through SPO-10 for broken electric vehicle charger replacement.
- Project manager for Coconut Marketplace Mobility Hub Plan. Procured Professional Services and contracted with Nelson/Nygaard for 1 year to study feasibility of a mobility hub on the east side of Kauai, propose parking management solutions, design an airport shuttle, and leave with high level implementation and operations steps. Convened a stakeholder advisory committee of 25+ people and planned a week-long project Charrette. Project in progress.
- Project manager for Congressionally Directed Spending Level 3 Charging Station Project. Budget is \$1 million. Completing the CatEx in-house, including Section 106, and with environmental clearance, will release an RFP design-build that I developed. Project in progress.

- Team member for Kauai Climate Adaptation and Action Plan, and one of the leads for the mitigation piece of the plan.
- Wrote a charger management transition plan for administration, removing most management duties from Economic Development and transitioning to Public Works and Parks & Recreation, with OED supporting policy development, research, and technical assistance.
- Developing a Small Business Energy Efficiency Grant in partnership with utility and the Kauai Economic Development Board.
- Draft policy for County operations and contributed to policy development for Council on EV Ready/EVSE-Installed updates to building and zoning code.
- Write and submit testimony for Hawaii State Legislator.

Economic Development Specialist II

January 2021 - July 2021 (7 months)

Lihue, Hawaii, United States

Support in Energy and Tourism Programs.

Special Projects Assistant

April 2020 - December 2020 (9 months)

Kauai County, Hawaii, United States

Community Response Coordinator, Office of the Mayor

- Managed Mayor Kawakami's email address, responding to questions regarding COVID-19 and delegated other questions to relevant department heads.
- Worked in Kauai Emergency Management Association call center to respond to COVID-19 inquiries.

Special Projects Assistant, Office of Economic Development (OED)

- Grant manager for Hawaii Tourism Authority grants.
- Develop policy for OED operations.

County of Kaua'i

Climate Action AmeriCorps VISTA

September 2018 - February 2020 (1 year 6 months)

Lihue, Hawaii

Office of Economic Development

- Collaborating with Hawaii's four counties on climate policy issues.
- Used ICLEI and ClearPath software to complete a County Operations and Community greenhouse gas inventory and emissions forecast.
- Support efforts to reduce carbon emissions and increase community engagement.

Project sponsored through Americorps VISTA and Kupu Hawaii. This project has allowed me to qualify for non-competitive eligibility (NCE) status from March 4, 2020, to March 4, 2021.

Oakland Zoo

2 years 4 months

Education Department Overnight Staff

August 2016 - August 2018 (2 years 1 month)

Oakland, California

Teen Wild Guide Program Intern

May 2016 - August 2016 (4 months)

Oakland, California

Sierra Club, San Francisco Bay Chapter

Conservation Intern

September 2017 - May 2018 (9 months)

Berkeley, California

Worked on the SF Bay Chapter's issue in Energy, specifically in consumer choice aggregate (CCA) energy programs in the Bay Area. Also worked in the Water Policy issue, analyzing an EIA and federal funding proposal for expansion of the Los Vaqueros Reservoir.

University of California, Berkeley, College of Natural Resources

Research Assistant

September 2017 - December 2017 (4 months)

Berkeley, California

Worked in UC Berkeley's Sponsored Projects for Undergraduate Research. Research with Dr. Villas-Boas for a chapter on California agriculture retail and consumer demand.

ICTSD International Centre for Trade and Sustainable Development

Junior Associate: Agriculture Programme

April 2017 - August 2017 (5 months)

Geneva Area, Switzerland

At ICTSD, I worked for the agriculture programme in news, research, and event coordination. I wrote articles for Bridges weekly, compiled information notes summarizing longer reports, compiled preliminary research around the 2030 Agenda, agriculture, food security, trade, sustainable development, and WTO ministerial issues, wrote and published an opinion piece, was in

contact with the staff of diplomatic missions to the WTO and UN, worked on the ICTSDAG Twitter account, attended conferences on topics such as Aid For Trade, and lastly, helped to coordinate meetings facilitated by the agriculture programme around public stockholding for food security purposes and a larger theme of food security issues facing the WTO, the G20, and the UN Agenda 2030.

Castro Valley Performing Arts

Dance Teacher

February 2012 - January 2017 (5 years)

Castro Valley, California

AGUA LINDA SWIMMING POOL CORP

Head Lifeguard

April 2013 - October 2016 (3 years 7 months)

Castro Valley, California

Education

University of California, Berkeley

Batchelor of Science, Society & Environment · (2014 - 2018)

University of Geneva

International Relations and Affairs · (2017 - 2017)

Castro Valley High School

· (2010 - 2014)

Marie Williams, AICP
PO Box 3048
Lihue, HI 96766
808-639-7745
mwilliams@kauai.gov

EDUCATION

Masters of City and Regional Planning

Georgia Institute of Technology, Atlanta (May 2008)

Environmental Planning Specialization

One semester at the *University of Queensland, Australia*

Thesis Option Paper: "Planning for Wind Energy in Hawaii: Issues, Tools, and Prospects"

B.S. Geography

B.A. Communications

Brigham Young University, Provo, Utah (June 2002)

Graduate of *Kahuku High and Intermediate School, Kahuku, Hawai'i*

CERTIFICATION

Certified Planner - American Institute of Certified Planners (2011 – Present)

EXPERIENCE

Long Range Planning Division Manager

Kaua'i County Planning Department, Līhu'e (January 2016 – Present)

- Manages the County's community planning program
- Develops projects to implement long-range plans and policies.
- Monitors and tracks policy implementation.
- Supervises staff planners and interns.
- Serves on County Resiliency Team.
- Represents the County on the regional and state committees and projects related to land use, transportation, housing, and sustainability planning.
- Supervises and manages County planning projects and studies:
 - Climate Adaptation and Action Plan (2021 - Present)
 - East Kauai Community and Circulation Plan (2023 – Present)
 - County Shared Use Path and Bikeways Master Plan (2024 - Present)
 - Lihue Mauka Bypass Master Plan (2024 - Present)
 - General Plan Update (2015 - 2018)
 - Waimea 400 Conceptual Plan (2021)
 - West Kauai Community Plan (2019 - 2021)
 - West Kauai Form Based Code (2021)
 - South Kauai Community Plan (2012 – 2015)
 - South Kauai Form Based Code (2015)

Long Range Planner

Kaua'i County Planning Department, Līhu'e (July 2008 – December 2015)

- Managed technical studies and long-range development plan projects.
- Managed the Six-Year Capital Improvements Program.
- Implemented the Complete Streets policy for the County of Kaua'i.
- Wrote implementing ordinance for APA-HI award-winning urban design plan.
- Project manager for South Kaua'i Community Plan.
- Implemented the Lihue Town Core Urban Design Plan.
- Wrote and presented staff reports for zoning amendments and draft bills.
- Conducted transportation-related research and documentation.
- Compiled and analyzed data on factors affecting land use and development.
- Performed technical analysis utilizing Geographic Information Systems (GIS)
- Analyzed sociodemographic data and prepared population projections.
- Conducted meetings with community groups, stakeholders, and landowners.
- Represented the County on the Technical Advisory Committees for the State Long-range Land Transportation Plan, the County Multi-modal Transportation Plan and the County Water Use and Development Plan.

Bicycle and Pedestrian Program Intern

Georgia Department of Transportation, Atlanta (January 2008 – April 2008)

- Edited and updated Georgia's Bicycle and Pedestrian Safety Action Plan.
- Analyzed bicycle crash data and prepared related report and graphs.
- Assessed all new projects for the inclusion of bicycle facilities.
- Consulted state, regional and local planning documents and maps to assess bicycle routes.

Community Development and Sustainable Agriculture Extension Agent

U.S. Peace Corps, Senegal, West Africa (March 2002 – May 2004)

- Designed and funded a \$2,000 village-based water supply project.
- Implemented and developed a 5-year community development plan.
- Developed and conducted trainings in sustainable agriculture practices.
- Compiled and analyzed field data on improved seed varieties.
- Wrote a successful grant application for a community health clinic.
- Directed 60 farmers in a profitable commercial garden venture.

LEADERSHIP

Chair – *Built Environment Task Force, Get Fit Kaua'i* (2008 – Present)

Member – Kaulunani Community Forestry Council (2018 – Present)

Steering Committee – *Get Fit Kaua'i* (2008 – Present)

Board Member – *Kaua'i Path* (2008 – Present)

Kaua'i Liaison – *American Planning Association, Hawai'i Chapter* (2009 – Present)

Co-Chair and Program Chair, *Hawaiian Congress of Planning Officials Conference* (2016)

Co-Chair and Program Chair, *Hawai'i Congress of Planning Officials Conference* (2011)

Chair – *Kaua'i County Census Complete Count Committee* (2009 – 2010)

Member – *Kaua'i Sustainability Action Team* (2010)

Deanna Phenicie Aina

Kula, Hawaii • (808) 936-7217 • deanna.aina@co.maui.hi.us

Progressive years of experience, graduated levels of accountability, responsibility, entrusted with confidential matters, having exceptional customer service acumen, and an affinity to building relationships within and without the community. Successful task management, procurement, with minor to moderate project management coordination, delivering key support to teams, and other stakeholders. Demonstrated strategic problem solving and boosting operational efficiency on awarded projects.

Core Competencies

- Administrative Management • Project Coordinating • Travel & Transportation Logistics
- Community Relations • Customer Service • Ability to Work Independently • Strong Communication & Critical Thinking Skills
- Event Planning • Strategic Planning & Execution • Adaptable • Knowledgeable • Diplomatic • Personal Integrity

Professional Experience

County of Maui Office of Economic Development November 2023 - Current

Grant Writer Specialist

- Identify, qualify, research, analyze, and brief grant opportunities.
- Coordinate Invoicing, project reports, correspondence, community contact.

Self Employed March 2022 - Current

Administrative and HR Services

- Scheduled, Hosted, and Monitored Virtual Webinars in person and virtual for management and clients
- Invoicing, expense reports, correspondence, community contact.
- Onboarded and vetted recruitment for a variety of positions for various clients
 - Included background checks and screenings.

GSI SERVICE GROUP INC., DOD Awarded Contracts – Denver, CO November 2009 – February 2022

MEC Administrative Logistics/Project Manager

- Successfully oversaw the MEC Division's administrative support services, ensuring that resources are deployed efficiently.
- Provide operational support to the MEC Division and Recruitment processes.
- Collaborate with the project management team while strictly adhering to specific operational practices and procedures.
- Effectively resolve complex transactions and issues and devise methods to complete individual assignments.
- Demonstrate professionalism with clients, vendors, and a full range of project staff to ensure client satisfaction.

Personnel and Project Manager

- Established the division's first remote project location from start to finish, ensuring operational success.
- Successfully managed office equipment, computers, work vehicles, heavy equipment, lodging, travel, shipping and receiving, following in-depth research, and tracking inventory.
- Proofed, edited, gathered costing information for proposal requests.
- Promoted company presence by successfully building and maintaining strong business relationships within the community.
- Recruited and hired teams in response to staffing needs and requirements outlined in Quality Assurance Project Plan (QAPP).
- Demonstrated strong knowledge and negotiation skills regarding pricing, agreements, and all equipment, lodging, transportation, and office requirements for division building and remote project sites CONUS.
- Screened job applicants, arranged interviews, and assisted HR with onboarding.
- Assisted with the procurement in establishing new accounts, purchasing office furniture, equipment, and supplies.
- Demonstrated strong negotiation skills in collaborating with suppliers/customers to improve supply chain efficiency or sustainability.

Education

Bachelor of Business Administration in Project Management

American Intercontinental University, Schaumburg, IL

OPSEC Certification

Completion Date: November 2021

Expiry: May 2024

TUKI DRAKE

Aaron Daniel Motuki Herefenua Drake

SUSTAINABLE DEVELOPMENT SPECIALIST | GRANTS WRITER | NON-PROFIT PROGRAM & PROJECT ADMINISTRATOR | SOCIAL WORKER | REGENERATIVE FARMER | EDUCATOR | AUTHOR | ILLUSTRATOR

(808) 212-3753

aarontukidrake@gmail.com

Puna, Hawai'i

PROFESSIONAL PROFILE

I am a passionate Social Professional with 12+ years of experience working to empower marginalized communities through business creation, education, art, sustainable tourism, sustainable food systems, and environmental conservation.

CAREER GOALS

I am eager for opportunities to further develop my skills as a community driven professional; regenerative agriculture, Pacific culture, and environmental advocate; and educator.

KEY SKILLS

- Government & Non-Profit Management
- Tourism & Grants Management
- Regenerative Agricultural Experience
- Writing, Research, & Fundraising
- Collaborative Team Player
- Conflict Resolution & Problem Solving
- Marketing Campaign Management & Website Design
- Sales, Interior Design & Teaching
- Cross-Cultural Communication & Multilingual
- Effective & Active Communication

PROFESSIONAL HIGHLIGHTS

- **County of Maui Office of Innovation and Sustainability Sustainable Development Specialist (Present):** Works in the Mayor's Office within the Office of Innovation and Sustainability to support sustainable and resilient programs and projects within the areas of: community resiliency; food security; environmental conservation; cultural preservation and perpetuation; climate change mitigation; clean and renewable energy; affordable housing; and caring for our unsheltered population. Responsible for managing contracts, submitting appropriate documentation, facilitating town hall discussions, attending Council hearings, and coordinating with Community and Government Partners to achieve project goals. Focused on creating, funding, and supporting innovative initiatives, programs, projects, and policies that improve Maui County residents' quality of life generationally.
- **Grow Some Good Nā Māla Kaiāulu Program Manager (2021 - 2023):** Oversaw the planning, design, and development of multiple acre regenerative agroforestry community gardens across Central Maui. Worked in partnership with private and public agencies, non-profit organizations, and community stakeholders to fulfill our organizational mission of empowering Maui 'ohana to grow their own food and work toward building a culturally grounded, resilient, and sustainable Maui food system. Grow Some Good is a Maui non-profit that supports school gardens and K-12 agricultural education in Maui public schools along with creating agroforestry community gardens for kama'āina families in Central Maui. Visit growsomegood.org.
- **IDEA Director of Operations (2021) and Project Coordinator (2019 - 2021):** Oversaw sponsorship, fundraising, educational programs, media, marketing, farming, recycling, and income-generating projects such as hotels, restaurants, a coffee shop, chocolate production, manufacturing, and construction. The International Deaf Education Association subsidizes the education of over 400 deaf schoolchildren annually across the Visayas Islands and is also one of the largest employers of deaf people in the Philippines. Visit ideadeaf.org.
- **Founded Kinabuhi Farm (2020):** a 7-acre organic solar-powered farm specializing in growing nutrient dense root crops, vegetables, fruits, and herbs using indigenous farming, permaculture, and aquaponics techniques. Visit <https://www.facebook.com/kinabuhifarm/> and Instagram [@kinabuhi_farm](https://www.instagram.com/kinabuhi_farm).

CAREER SNAPSHOT

- **Economic Development Specialist II** – County of Maui – Office of Innovation and Sustainability, Maui, Hawai'i, 2023 – Present
- **Board Member** – Maui Family YMCA Board of Directors, Maui, Hawai'i, 2023 – Present
- **Program Manager** – Grow Some Good - Nā Māla Kaiāulu, Maui, Hawai'i, 2021 – 2023
- **Garden Teacher** – Lokelani Intermediate School, Kīhei, Maui, Hawai'i, 2021 – 2022
- **Director** – International Deaf Education Association Board of Directors, 2021 - Present
- **Consultant** – International Deaf Education Association, Remote, 2021
- **Director of Operations** – International Deaf Education Association, Philippines, 2021 – 2021
- **Project Coordinator** – International Deaf Education Association, Philippines, 2019 – 2021
- **Taro Farmer** – Kualoa Ranch Hawai'i Inc., Kāne'ohe, HI, 2019
- **Comics Illustrator** – Ka Leo O Hawai'i, University of Hawai'i at Mānoa, Honolulu, HI, 2017 – 2018
- **Cook Islands Ministry of Culture Intern** – National Museum of the Cook Islands, Rarotonga, 2017
- **Groundskeeper** – Brigham Young University Hawai'i, Lā'ie, HI, 2015 – 2016
- **Sales Associate** – Ace Hardware and Crafts, Līhu'e, HI, 2012 – 2014
- **Stocker/Receiver** – Lowe's Home Improvement Warehouse, Washington, 2011 – 2012
- **Special Projects Coordinator** – International Deaf Education Association, Philippines, 2009 – 2011
- **Conference Assistant** – Cannon Beach Conference Center, Cannon Beach, OR, 2009
- **High School Art Teacher** – Bohol Deaf Academy, Philippines, 2007 – 2008

QUALIFICATIONS AND TRAINING

**Master of Arts Degree in Pacific Islands
Studies, 2017-2019, *summa cum
laude***

University of Hawai'i at Mānoa, HI

**Bachelor of Arts Degree in Pacific Island
Studies w/focus in Travel and Tourism
Management, 2015-2017, *summa
cum laude***

Brigham Young University Hawai'i, HI

**Associate of Arts Degree in Hawaiian Studies,
Certificate of Competence in Hawaiian Botany,
Academic Subject Certificate in Hawaiian
Studies, Academic Subject Certificate in
Polynesian Voyaging, 2013-2015,
*magna cum laude***
Kaua'i Community College, HI

CORE COMPETENCIES

- MS Word
- MS PowerPoint
- Adobe Photoshop
- Procreate
- MS Excel

WORK EXPERIENCE

COUNTY OF MAUI – OFFICE OF INNOVATION AND SUSTAINABILITY (Maui, Hawai'i)

ECONOMIC DEVELOPMENT SPECIALIST II

January 2023 - Present

- Works in the **Mayor's Office** and reports directly to the Director of Economic Development and Mayor on assigned tasks and projects.
- Responsible for managing contracts, submitting appropriate documentation, facilitating town hall discussions, attending Council hearings, and coordinating with **Community and Government Partners** to achieve project goals.
- Focused on creating, funding, and supporting innovative initiatives within the areas of community resiliency, food security, environmental conservation, cultural preservation and perpetuation, climate change mitigation, clean and renewable energy, affordable housing, and houselessness solutions.
- Partnered with Community leaders, Non-Profits, County, State and Federal officials and agencies to address houselessness in Maui County by creating stronger, more collaborative interdepartmental networks, policies, and long-term care solutions.
- **Co-leads multi-million-dollar federal grants initiatives** to fund feral ungulate management, flood and hazard mitigation, resilience hubs, environmental protection efforts, and large-scale reforestation efforts.
- Works with **Office of Innovation and Sustainability Team** to manage environmental and conservation

- **grants** and communicates directly with grantees on their long-term and short-term goals.
- Immediately deployed with first responders to **stand-up emergency food distribution networks**, reestablish emergency communication, support community leaders and their hubs, assess and report the scale of the damage, and help evacuate visitors from the disaster area in the wake of the Lāhainā and Kula Wildfires.
- Part of the **recovery team** to sustain long-term food and essential supplies distributions to Survivors and support regenerative agriculture initiatives within our distribution efforts in conjunction with Non-Profit, County, Federal and International Partners.
- Worked with team to adopt and implement a **local climate change action plan for the UN 2030 Sustainable Development Agenda**.

GROW SOME GOOD (Maui, Hawai'i)

PROGRAM MANAGER

November 2021 – January 2023

- **Senior Manager for Nā Māla Kaiāulu**, Grow Some Good's Community Food Systems Program. Reports directly to the Executive Director. Responsible for overseeing the planning, design, and development of multiple acre regenerative agroforestry community gardens across Central Maui. Works in partnership with private and public agencies, non-profit organizations, and community stakeholders to fulfill our organizational mission of empowering Maui 'ohana to grow their own food and work toward building a culturally grounded, resilient, and sustainable Maui food system. Grow Some Good is a Maui non-profit that **supports school gardens and K-12 agricultural education** in Maui public schools along with creating agroforestry community gardens for kama'āina families in Central Maui. Visit growsomegood.org.
- Coauthor for successful major program **grant**.
- Responsible for **building and supporting partnerships** with other likeminded non-profits, private sector supporters and community stakeholders to help ensure long-term viability for the gardens and programs.
- Responsible for **designing and coordinating** the development of site-specific **multi-acre agroforestry gardens** in Waikapū and Kahului.

INTERNATIONAL DEAF EDUCATION ASSOCIATION (Bohol, Philippines)

DIRECTOR OF OPERATIONS/ PROJECT COORDINATOR

November 2019 – July 2021

- **Senior Manager under the President**, reporting directly to the US board of directors. Responsible for overseeing sponsorship, fundraising, educational programs, media, marketing, farming, recycling, and income-generating projects such as hotels, restaurants, a coffee shop, chocolate production, manufacturing, and construction. The **International Deaf Education Association** subsidizes the education of over 400 deaf schoolchildren annually across the Visayas Islands and, with approximately 200 employees, is one of the largest employers of deaf people in the Philippines. Visit ideadeaf.org.
- Headed the COVID-19 **Distance Learning Program** for the 2020-2021 school year for **Bohol Deaf Academy**, a private high school for deaf students in the Philippines, with approximately 110 students and a faculty of ten, and several of our elementary schools. Sourced additional electronic devices, software, hardware and technological expertise from donors and partner organizations. Visit bdaphilippines.org.
- Founded **Kinabuhi Farm**, a 7-acre organic farm that aims to address food insecurity amongst the organization's staff and their families, approximately 600 people. It also serves as a vocational training center for deaf students. Visit <https://www.facebook.com/kinabuhifarm/> and Instagram [@kinabuhi_farm](https://www.instagram.com/kinabuhi_farm).
- Started **Kahiki Café**, an Oceanic themed restaurant in Tagbilaran City which serves produce from Kinabuhi Farm, employs deaf adults, and is a vocational training center for deaf high school students. Visit <https://www.facebook.com/KahikiCafeBohol/>.
- Started **Honu Coffee Bar**, a coffee shop that provides livelihood training to deaf high school students who want to become baristas. Visit <https://www.facebook.com/HonuCoffeeBarBohol/>.
- Launched **Karakoa Chocolates**, an artisan chocolate manufacturing company that employs deaf persons and is a vocational training center for deaf high school students. Visit <https://www.facebook.com/KarakoaChocolateBohol/>.
- Part of the senior management team for **Hammer and Nails Livelihood Center**, which employs a predominantly deaf construction crew of 80 and has spearheaded the building of Structurally Insulated Panel (SIP) homes on Bohol Island. Visit <https://www.facebook.com/HammerAndNailsTagbilaran/>.
- Led our media team in improving our social media presence, redeveloping our websites, and creating new promotional content and marketing strategies for our businesses.

- Writer for grants, project proposals, fundraising letters, newsletters, and sponsorship updates.
- Achievements:
 - Part of the **international management team** in charge of navigating the organization through the unprecedented difficulties that the 2020 pandemic caused.
 - Designed and oversaw room and lobby renovations at **Dao Diamond Hotel**.
 - **Launched** Kinabuhi Farm, Kahiki Café, Honu Coffee Bar, and Karakoa Chocolates.
 - Led the **distance learning initiative** for our schools.
 - Wrote and co-wrote **grants and fundraised for special projects** (outside of normal operation donations) totaling approximately \$100,000.
 - **Oversaw the construction** of two SIP houses and streamlined our SIP process, working with our architects, structural engineers, and foreman to reduce costs and build times.

NATIONAL MUSEUM OF THE COOK ISLANDS (Rarotonga, Cook Islands)

COOK ISLANDS MINISTRY OF CULTURE INTERN

March 2017 – July 2017

- Identified, labeled, and categorized artifacts; provided educational tours for museum visitors; managed reception; and did bookkeeping.
- **Assisted in several large traditional dance exhibitions** and looked after daily museum operations.
- Created a **public informational poster** for the Cook Islands Government regarding artifact preservation.
- Achievements:
 - Initiated a **weekly documentary film-showing** at the museum for the community.
 - **Designed a children's activity book** for the museum and produced a large informational map highlighting the Polynesian migration to be showcased alongside a traditional voyaging canoe exhibit.

INTERNATIONAL DEAF EDUCATION ASSOCIATION (Bohol, Philippines)

SPECIAL PROJECTS COORDINATOR

2009 - 2011

- **Managed and oversaw a variety of projects** ranging from hospitality training and special needs teaching, to design and construction supervision.
- Worked closely with office and hotel managers, sponsorship staff, and construction teams to **achieve assigned project goals**.
- Achievements:
 - **Designed** for the Dao Diamond Hotel: a large front entryway, front desk, hotel restrooms, and wash area. Also **headed room renovations** for the hotel. Oversaw a team of eight.
 - In-charge of **renovating the exterior and interior** of Garden Café Jagna Pension House. Designed all new additions to the structure including a public restroom. Oversaw a team of six.
 - **Designed a fully functional student canteen/working classroom** for Bohol Deaf Academy, on time and within a budget of Php 50,000.
 - **Co-edited a successful NZ\$ 196,760.00 grant proposal** to the New Zealand Government through Christian Blind Missions.

CANNON BEACH CONFERENCE CENTER (Cannon Beach, Oregon)

CONFERENCE ASSISTANT

2009 - 2009

- **Provided the best possible service** to all Conference Center guests.
- Served in **Housekeeping** and knowledgeable in proper cleaning procedures.
- Achievements:
 - **Youth Counselor** to approximately 40-50 high school students per week.
 - **Barista** at the CBCC Coach House coffee shop, manned the register, served coffee and food.

PREVIOUS WORK EXPERIENCE SNAPSHOT

Company	Role	Duration
Kualoa Ranch, Hawai'i Inc.	Taro Farmer	2019-2019
Ka Leo O Hawai'i- UH Mānoa	Comics Illustrator	2017-2018
Brigham Young University- Hawai'i	Groundskeeper	2016-2016

Ace Hardware & Crafts, Līhu'e, HI	Sales Associate	2012-2014
Lowe's Home Improvement	Stocker/Receiver	2011-2012
Bohol Deaf Academy	High School Art Teacher	2007-2008

PERSONAL

- Board Member for IDEA US and IDEA Philippines
- Board Member for Maui Family YMCA, Hawai'i
- Languages - Native English speaker, Boholano Visayan (conversational), 'Ōlelo Hawai'i (beginner/intermediate), and Philippine Sign Language (conversational).
- Published Author and Illustrator of Mata Austronesia: Stories from an Ocean World, UH Press, 2022; Illustrator for Ko E Ngaahi 'Otua Tu'ufonua 'O Tongá: The Indigenous Gods of Tonga, Twinnies Publishing, 2022
- Enjoys creating art, traveling, meeting new people, culture, history, ethnobotany, paddling, fishing, and growing food.

LETTERS OF SUPPORT

Aaron Tuki Drake

The International Deaf Education Association (IDEA) is a non-profit organization based out of Billings, Montana that has worked in the Visayan Islands of the Philippines to empower the Deaf community for over 30 years by providing educational programs for deaf children and vocational opportunities for deaf adults in a concerted effort to create a more equitable society. Currently, IDEA supports over 400 K-12 deaf students through our educational programs and employs approximately 200 people in several IDEA run businesses, most of whom are deaf persons or their family members. IDEA is one of the largest employers of deaf persons in the Philippines.

Mr. Drake joined IDEA as Project Coordinator in October of 2019, after previously having served with IDEA from 2009 to 2011 as Special Projects Coordinator. Drake was made Director of Operations in February 2021. Drake stepped down as Director of Operations in July of 2021 to relocate back to Hawai'i for his children's education. Drake has continued with IDEA as a consultant and board member working closely with our partners in the Philippines.

Mr. Drake was based at our Philippine headquarters on the island of Bohol and was involved and oversaw all facets of the organization including fundraising, grant writing, sponsorship, social media, marketing, promotion, newsletters, education, school administration, networking, vocational training programs, job creation and business development.

Mr. Drake proved himself a competent and capable leader during one of the most tumultuous seasons in our organization's history. The pandemic, strict lock downs and the shutdown of all air and sea travel to and from Bohol led to a significant reduction in business revenue overnight for our several income and employment generating projects and closed in-person learning and the dormitories for our deaf students. Drake along with our board and staff raised funds and organized monthly food distributions to our furloughed employees and actively sought ways to keep our businesses and schools afloat.

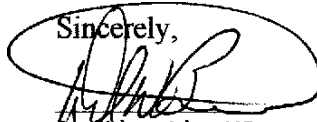
Drake founded Kinabuhi Farm, a 7-acre organic farm that provides nutritious produce at little or no cost to IDEA's employees and their families. He spearheaded the creation of a digital and video distance learning curriculum and secured tablets for our high school, Bohol Deaf Academy, that addressed the specific learning needs of our students, many of whom have no internet access and no personal computers or tablets of their own. He supervised our construction company, Hammer and Nails, and helped streamline our SIP home builds and recycling program. Drake also launched Karakoa Chocolates which produces high-end single estate grown artisan chocolate bars and is a vocational training program for our deaf high school students while providing employment to deaf adults.

Drake oversaw our educational programs and businesses. He is experienced working within budgets and time frames and with partner organizations, vendors, clients and other stakeholders to achieve project objectives. During his time with IDEA, Drake undertook extensive renovations of our hotel, Dao Diamond, overhauling the lobby and several key guest rooms. Concurrently, he created a new restaurant, Kahiki Cafe, and started a coffee shop, Honu Coffee Bar. Each of which employ deaf persons and act as vocational training programs for deaf high school students.

In addition, nearly every newsletter, sponsorship letter, marketing, promotional material, video, menu, website, or official correspondence has been either written or edited by Mr. Drake during the last two years that he has worked for IDEA.

Drake is an intelligent, hardworking, creative, and passionate person who cares deeply for others. For him, the bottom line is serving people and improving their lives.

We wholeheartedly recommend Mr. Drake as an invaluable member of your team.

Sincerely,

President Idea US

RENEE ESPIAU, AICP

EDUCATION:	New York University Robert F. Wagner Graduate School of Public Service Master of Public Administration, 2005 Specialization: Transportation & Urban Planning <u>Coursework:</u> Transportation Planning & Policy, Urban Infrastructure, Sustainable Cities, Waterfront Planning, Economic Development, Program Evaluation, Public Finance & Economics, Public Service Management	New York, NY
	University of Oregon Robert D. Clark Honors College Bachelor of Arts: International Law & Policy/Business Administration, 2001 Magna Cum Laude, Phi Beta Kappa	Eugene, OR
EXPERIENCE:		
5/2019-Present	City and County of Honolulu Department of Transportation Services Complete Streets Administrator <ul style="list-style-type: none">Administer the Honolulu Complete Streets Program, which supports and implements roadway improvements for pedestrians, bicyclists, transit riders, and those using mobility devicesEnsure coordination among various departments and compliance of the city's roadway maintenance activities and capital improvement program with the Complete Streets ordinanceFacilitate public engagement and communication in support of a safer transportation systemManage public and private funds to support implementation of long-range transportation plans	Honolulu, HI
11/2009-5/2019	City and County of Honolulu Department of Planning & Permitting Transit-Oriented Development (TOD) Program Planner/Branch Chief <ul style="list-style-type: none">Developed Neighborhood TOD Plans for all of the rail stations areas under City jurisdiction through context-sensitive and community-based planningAdvanced capital projects and implemented new urban design requirements and zoning changesNegotiated community benefits as part of TOD projects, including affordable housing units, new public spaces, and multimodal mobility improvementsSupervised contractual consultant work on technical planning studies	Honolulu, HI
7/2007-11/2009	Project for Public Spaces (PPS) Senior Associate <ul style="list-style-type: none">Coordinated PPS's transportation program: planning and design projects, training and education, advocacy, speaking engagements, research and publications, business development, strategic planning and budgetingManaged fee-for-service contracts for public, private and non-profit clientsFacilitated public participation: community workshops, focus groups, stakeholder interviews, surveysCreated plans for highways and streets, transit stations, bicycle and pedestrian facilities, parks, plazas, civic buildings, waterfronts and mixed-use developments	New York, NY
7/2005-7/2007	State of New Jersey Department of Transportation (NJDOT) Senior Transportation Planner <ul style="list-style-type: none">Integrated transportation and land use planning along important state highway corridorsPlanned highway capital improvement projects and informed the NJDOT 5-year capital programReconciled project plans between NJDOT technical staff and community partners	Trenton, NJ
5/2004-5/2005	NYU Rudin Center for Transportation Policy & Management Graduate Research Assistant <ul style="list-style-type: none">Conducted long-range regional highway planning for New York City's MPOWrote research reports and articles for clients and the transportation communityOrganized public conferences on current transportation issues	New York, NY
COMPUTERS:	Microsoft Office, Adobe Creative Suite, ESRI ArcGIS, Project Management software	
LANGUAGES:	Proficient in Spanish and French	
AFFILIATIONS:	American Planning Association/American Institute of Certified Planners, Institute of Transportation Engineers	

Jon Y. Nouchi

Transportation Professional

711 Kapi'olani Boulevard
+1 (808) 479-4467
jon.nouchi@gmail.com
www.linkedin.com/in/jonnouchi
www.honolulu.gov/transportation



Experienced transportation leader with a demonstrated skillset of managing transportation operations.

Skills

- Multimodal transportation planning, implementation, and operations for bus, rail, paratransit, and active transport modes
- Fleet and capital infrastructure planning, procurement, implementation, maintenance, and management
- Leadership and management of public and private employees and consultants
- Implementing Complete Streets for mobility equity
- Interface with federal funding partners and program management

Experience

DECEMBER 2016 – PRESENT

Deputy Director, Department of Transportation Services City and County of Honolulu

Lead policy, planning, design, and engineering work for all transportation modes; manage public and private multimodal transportation operations including ongoing bus, paratransit, and rail operations; coordinate efforts with County, State, and Federal government leadership and funding; engage with riders, community members, neighborhood boards, and grass-roots organizations; implement new mobility modes including bikeshare and shared micromobility; develop zero-emissions bus and charging infrastructure and concept of operations; design and implement transit priority lanes and transportation technology including cloud-based transit locations and traffic signal prioritization.

MAY 2014 – DECEMBER 2016

Deputy Director, Planning and Environment Honolulu Authority for Rapid Transportation

Oversee rail planning, design, and multimodal integration; ensure environmental compliance with local and national standards; conduct cultural consultations with Native Hawaiian organizations, state and federal entities, and historic preservation advocates; promote sustainability and smart land use.

JANUARY 2009 – MAY 2014

Director, Planning and Service Development Oahu Transit Services, Inc.

Implement efficient schedules and technology to maximize passenger ridership of TheBus; design useful transit routes to serve O'ahu's residents; employ constant review of service to ensure efficiency and customer service; implement next-generation software and technologies to improve passenger experience.

Education

MAY 1996

Bachelor of Science, Planning and Development

University of Southern California, Los Angeles, California

Studies focused on urban planning and urban design, with an emphasis on transportation and social equity.

Programs

SEPTEMBER 2012

Leadership APTA

American Public Transportation Association

This year-long executive leadership development program focused on leadership development, nationwide transportation agency networking, media and presentation skills, labor negotiations, congressional and government relations, and transit-focused problem solving.

DECEMBER 2009

Pacific Century Fellows

Fund for the Pacific Century

Focused on teaching Hawai'i-based, local-style professional networking and engagement, this program showcased diverse pieces of Hawai'i's landscape, focusing on education, Native Hawaiian affairs, transportation, military affairs, and globalization to encourage development of next-generation leadership and competencies cross-bred between public and private sectors.

Other Skills and Awards

Certificate, Hawaiian Language

University of Hawaii at Manoa, Honolulu, Hawaii

Hawaiian language courses focused on conversational fluency, chant, composition, poetry, geography, historic newspapers, and government documents.

Commercial Driver License

State of Hawaii

Able to operate a Class B commercial vehicle with air brakes and passenger endorsements.

Top 40 Under 40

Mass Transit Magazine

Recognized as part of a nationwide cohort of up-and-coming transportation leaders.

Todd A. Boulanger

Transportation and Environmental Planner

Todd Boulanger is an experienced manager with a career in overseeing complex urban transportation systems and rural water systems / environmental planning with a focus on decentralized infrastructure. Todd has experience fulfilling the project needs of a broad range of clients in both the public & private sectors via non-profit & for-profit organizations.

Professional Highlights

- ◇ **Executive Director (CEO), Bikeshare Hawaii (HI-USA) 2018-Now**
 - Oversees 'Biki', one of US's top ranked systems (NACTO) >6m trips.
 - Coordinates the contract relationships for a public private partnership between for-profit operator and city (system value >\$12m).
 - Facilitates donations and in-kind resources annually for ~\$1m budget.
 - Implements strategic planning for system expansion (all 136 stations are 'no fee' sites) and per trends in shared mobility devices / MaaS field.
 - Negotiates site licenses and real estate agreements (private and public).
 - Ensures compliance with all applicable laws, regulations and contracts.
 - Recruits key stakeholders, sponsors and retains positive relationships.
 - Provides legislative policy and testimony for government legislation.
 - Biki P3 system: ~30 FTE (staff, operator, volunteers & consultants).
- ◇ **Principal: Urbane Streets, US & International 2009-2018**
 - Provided contract staff support for small cities development review: spatial (plans), technical (TIA & cultural) and environmental (SEPA, & wetland boundaries) reports and studies for E2 Land Use Planning LLC
 - Consulted on street design, operations and policy as it affects allocation of public space for active transportation and traffic safety.
 - Managed the planning, public process, and writing of self-evaluation process and ADA PROW transition plans for HDJ Design (now PBS).
 - Responsible for sales, development, operations and oversight in design of new bike parking facilities nationwide (transit hubs & mixed-use developments) for Bikestation's public and private sector clients.
 - Managed traffic calming projects, parking and providing transportation engineering design (30% level) for streetscape, corridor planning, traffic calming and safe routes to school projects for Wallis Engineering.
 - Co-Managed Alta Planning's in-country project team activities with a multi-agency taskforce for a pedestrian safety action plan, developed a review of best practices for adoption, evaluated over 1500 crash sites, undertook roadway safety audits (RSA) and countermeasures for 150 critical crash locations for the Abu Dhabi DOT (UAE)
 - Expert witness court testimony for vulnerable roadway users in Portland.
- ◇ **Senior Transportation Planner: Neighborhood Safety & Livability, Transportation Services, City of Vancouver (WA-USA) 1999-2009**
 - Managed 97 transportation capital projects totaling \$12 million (2009).
 - Corridor planning with conceptual design, new code and standard details (traffic calming and complete streets) via safe systems approach.
 - Provided customer service to neighborhood associations (62) and businesses for livability-safety, TDM/ new mobility and parking.
 - Briefed Council on annexation, safety, mobility and capital projects.
 - Bi-state committee technical support (CRC: Bike-Ped/ LRT Stations).
 - Statewide policy coordination (WA Bikes, RTPs, DOTs etc.).
 - Exercised supervision over consultant teams and technical staff.
- ◇ **Planner IV, State of Hawai'i, FHSD DOH (HI-USA) 1996-1999**
 - Wrote grants for federal low-income service areas/J1-visa applications, performed KPI analysis for service deployment per area and equity.
 - Managed the analysis and publication of annual Family Health Data Book.
- ◇ **Research Assistant, WRRC, State of Hawai'i (HI-USA) 1992-1994**
 - Prepared building code for potable rainwater systems using research of system materials, pH, human factors, VOG + CDC blood lead levels.

PO Box 2362, Honolulu HI 96804-2362 USA
urbane.streets@gmail.com / 808-275-7810
www.linkedin.com/in/todd-boulanger-biki

Key Projects

- NACTO Top Tier Docked Bikeshare System (2017 - current) >6 million trips & >300,000 users. ~1300 bikes / 136 stations / >20mi2. ~4 rides/b/d (2021)
- Processing 200 bikeshare site permits annually (HI)
- Sabre Springs Parking Structure at MTS BRT Design Build, McCarthy Builders/ SANDAG (CA)
- Santa Barbara Bikestation Parking Structure at Lot 3 / El Pueblo Viejo Landmark District (CA)
- Grant Park Village & LL Hawkins TODs: Parking Design, Capstone Partners (Portland OR)
- East Liberty III TOD & Transit Hub Parking Facilities Design, Mosites (Pittsburgh PA)
- Planning NEV access: City of Ridgefield (WA)
- ADA PROW Transition Plans: The Cities of Yakima, Camas and Vancouver (WA)
- Arterial Conversion Study: Couplet to 2-Way Traffic Operations, City of Hillsboro (OR)
- 3rd Place Streetscape Plan, The Dalles (OR)
- Pedestrian Black-Spot Study: Abu Dhabi DOT (UAE)
- BRT 4th Plain Streetscape Details-T06, CoV (WA)
- US EPA GreenFleet Pilot Mobility Project: Flexcar/BikeLink, City of Vancouver (WA)
- McLoughlin Blvd. Corridor Traffic Calming & Parking Plan: 5 Phases [back-in parking], CoV (WA)
- Rainwater Catchment Building Guidelines (WRRC)
- Designed and supervised building a potable water system (10 km buried supply pipeline) serving 200 families in a remote mountain topography (PCV)

Education / Training

- MURP: Infrastructure & Environmental Planning, UH Manoa Hawaii (w/STEM courses)
- B.A., Political Science & Asia Studies minor, Southern Methodist U., Dallas TX (Jiao Tong University, Shanghai PRC), with MBA coursework
- NACTO Urban Design Training (2015)

Professional / Community Service

- Transportation Research Board reviewer (MaaS)
- Sustainable Transportation Coalition of Hawaii (STCH) [US Clean Cities Coalition], Vice Chair
- City of Portland (OR), Bike Parking Code 2016-17
- BTA (OR) work zone policy advisor, 2013-2016
- Transportation Benefit District (2015) & LRT Funding (2010) Commissions, Vancouver (WA)
- Mobis Transportation Alternatives, cofounder, 2009
- Bikestation, director 2004-2008 & chair 2008-9
- Women's Transportation Seminar (OR) director, Fundraising Committee, 2007-2008
- Transportation Choices Coalition, director, 2001
- US Peace Corps Philippines: volunteer & trainer

National Research Presentations

- PIPTA, Parking & Operations Conference (2015)
- Abu Dhabi Pedestrian Safety Conference (2010)
- ProBike ProWalk Conference, Madison (2006)
- Bike SAFE#4 Report, USDOT FHA / PBIC (2006)
- Railvolution Conference, Salt Lake (2005)

Other

- Natural Disaster Awareness for Security Professionals, FEMA NDPTC UH (2022)
- The Streets Trust/ BTA Volunteer Award (2005)
- Hobby: bicycle touring, hiking and camping

Travis Lee Counsell

Non-Profit Executive Director

tcounsell1@gmail.com - (808) 445-2047 – Kailua, Hawai'i

EDUCATION	Master of Business Administration – Executive MBA Program – Shidler College of Business – University of Hawai'i, Honolulu, HI	Spring 2019
	Bachelor of Arts, Elon University, Elon, NC – Cum Laude, GPA 3.62 Major: Environmental Studies Minor: Business Administration	Spring 2011
	International Study: Canterbury University of Christchurch, New Zealand	Spring 2010
COURSEWORK	Business Policy & Strategy, Investment Analysis & Management, Accounting for Decision Making, Economic Foundations for Managers, Leadership & Organizational Behavior, Environmental Economics, Principles of Management	
SKILLS	Microsoft Office, Mac OS, Google Suite, Wordpress, Slack, Adobe Photoshop	
EMPLOYMENT	Hawai'i Bicycling League – <i>Executive Director</i> – Honolulu, HI	Summer 2022 – Present
	<ul style="list-style-type: none">▪ Meet the overall goals and mission of the organization set by the Board of Directors▪ Oversee all efforts relating to advocacy, education, and events▪ Develop, follow, & manage the annual budget▪ Manage multiple grants and educational programs▪ Hold weekly team meetings & supervise staff▪ Oversee Hawai'i Community Foundation Executive Transition Award	
	New England Mountain Bike Association – <i>Executive Director</i>	Fall 2020 – Fall 2022
	<ul style="list-style-type: none">▪ Connect with 33 chapters to support over 7,000 members▪ Lead the hiring & onboarding logistics for new team members▪ Plan a multi-thousand participant, multi-day mountain bike festival▪ Grow the riding community via increased benefits & accessibility▪ Communicate with members through newsletters & education▪ Connect with state officials, land owners, & other stakeholders to advocate for mountain bike trail access & proper trail management▪ Ensure organization has necessary bookkeeping, insurance policies, & other business support is in place	
	Bikeadelic Hawai'i – <i>Owner / General Manager</i> – Waikiki, HI	Summer 2018 – Summer 2020
	<ul style="list-style-type: none">▪ Manage all business activities, bookkeeping, & contracts▪ Create & execute strategic growth plans▪ Expand business revenue streams to include guided tours▪ Design & build out a new business location▪ Hire, train, & manage staff & tour guides▪ Maintain a fleet of bicycles, design merchandise, & manage inventory▪ Ensure a high level of customer satisfaction & service▪ Market to international customers & manage a customer database	
	Hawai'i Bicycling League – <i>Cycling Advocacy Non-Profit</i> - Honolulu, HI	
	Events Director – Fall 2015 to Spring 2018	Spring 2014 – Spring 2018
	<ul style="list-style-type: none">▪ Oversee & direct large cycling events, e.g., Honolulu Century Ride▪ Organize engaging smaller community events▪ Develop, present, & follow annual budget & timeline▪ Market to & manage over 3,000 event registrations annually▪ Recruit & supervise hundreds of volunteers▪ Redesign annual membership dinner into a fundraiser	
	Grant Manager & Membership Coordinator – Spring 2014 to Fall 2015	
	<ul style="list-style-type: none">▪ Coordinate & deliver driver safety presentations to community groups▪ Successfully submit grant reimbursements & future applications▪ Communicate with members & grow member support▪ Update & maintain membership database	

Travis Lee Counsell

Non-Profit Executive Director

tcounsell1@gmail.com - (808) 445-2047 – Kailua, Hawai'i

PROFESSIONAL DEVELOPMENT	HANO Fellows – 2023 Cohort <ul style="list-style-type: none">▪ Connect with fellow Hawai'i-based non-profit Executive Directors▪ Improve non-profit management principles▪ Obtain leadership development knowledge	Spring 2023 – Fall 2023
	Association of Pedestrian & Bicycle Professionals – Mentor Program <ul style="list-style-type: none">▪ Seek career development advice and insight▪ Gain knowledge and perspective from experienced professional	Summer 2023 – Fall 2023
PROFESSIONAL AFFILIATIONS	League of American Bicyclists – League Cycling Instructor & Member <ul style="list-style-type: none">▪ Certified to lead cycling focused workshops and rides▪ Represent Hawai'i at National Bike Summit in Washington D.C.	Spring 2014 – Present
	Association of Pedestrian & Bicycle Professionals – Member <ul style="list-style-type: none">▪ Participate in workshops, forums, and mentorship program	Summer 2022 – Present
	Honolulu Mayor's Advisory Committee on Bicycling – Chair <ul style="list-style-type: none">▪ Oversee monthly meetings with representatives from multiple government branches and community organizations	Fall 2022 – Present
	Oahu Metropolitan Planning Organization – Citizen's Advisory Committee <ul style="list-style-type: none">▪ Attend monthly meetings and represent the interest of people who ride bicycles	Fall 2022 – Present
	Statewide Safe Routes to School Working Group <ul style="list-style-type: none">▪ Attend monthly meetings to discuss pathways to create safer streets for all road users, especially youth navigating to school	Fall 2022 – Present
	Healthy Eating and Active Living (HEAL) Policy Advisory Committee <ul style="list-style-type: none">▪ Participate in bi-weekly meetings to discuss Hawai'i Institute of Public Health HEAL program policy strategies	Spring 2023 – Present
	Active Transportation Executive Director Group <ul style="list-style-type: none">▪ Attend monthly meetings and participate in forums with peers from similar organizations across the nation	Spring 2023 – Present
	Ulupono Civic Platform Working Group <ul style="list-style-type: none">▪ Assist in the formation of a civic engagement platform to bring together non-profits with similar mission of safer streets for all	Fall 2023 – Present
VOLUNTEER EXPERIENCE	Hawai'i Visitors and Conventions Bureau – Member <ul style="list-style-type: none">▪ Learn insights on visitor preferences and engagement methods	Summer 2018 – Summer 2020
	Kailua Neighborhood Board – Member & Committee Chair <ul style="list-style-type: none">▪ Participate in the community decision-making process of government▪ Chair the Transportation and Public Works subcommittee▪ Represent the community at various meetings	Summer 2023 – Present
	Oahu Mountain Bike Ohana – <i>Board Member & President – Honolulu, HI</i> <ul style="list-style-type: none">▪ Lead non-profit board meetings & activities▪ Organize trail building & maintenance efforts▪ Coordinate Take-a-Kid Mountain Biking events	Fall 2016 – Spring 2020
	Hawai'i Institute of Marine Biology – Volunteer Research Assistant <ul style="list-style-type: none">▪ Support nearshore marine field operations through small boat and snorkel activities▪ Collect samples (genetic, water, and coral tissue)	Fall 2013 – Fall 2018

Joel O. Bautista, PE

Email: jbautista@kauai.gov

Cell: 619.851.0307

Office: 808.241.4153

Highly committed Professional Engineer with twelve years of experience working with State, County, and Local Government Agencies.

Education

B.S. Environmental Resources Engineering, Cal Poly Humboldt (ABET accredited) May 2011
B.A. Psychology, University of California San Diego March 2006

Associated Skills

- Professional License # 18042
- Proven record of ensuring projects are accurately processed and delivered according to Federal and State regulations
- Experienced with managing construction projects, design consultants, and meeting project deadlines
- Recognized for strong professional work ethic and commitment to high standards
- Excelled at bridging gaps and fostering relationships that led to increased productivity and Agency collaboration

Experience

County of Kauai, Department of Public Works – Civil Engineer VI (Manager) Aug. 2021 - Present
Project Management Section Head, Engineering Division

- Manage the development and execution of County of Kauai State Transportation Improvement Program (STIP)
- Oversee procurement of Planning, Design, and Construction Contracts
- Manage the County of Kauai DPW Bridge Program (Inspections and Appraisal)
- Supervise and manage professionally licensed design, construction, and construction management firms
- Lead, supervise, and oversee Planning consultants for Environmental Permitting requirements and reports

County of Kauai, Department of Public Works – Civil Engineer IV, V June 2018 - Aug. 2021
Engineering Division

- Supervise and perform field inspection of engineering projects
- Oversee and track project budgets, funds, and payrolls with Fiscal Department
- Prepare and process professional services and construction procurement and selection documents
- Manages contract development, negotiations, and amendments
- Lead and conduct owner, architect, and contractor meetings
- Interprets construction plans and specifications and makes recommendations on proposed design or field changes
- Reviews the work of contractors to ensure completeness and conformance with contract documents and FHWA guidelines
- Settles disputes between contractors and inspectors
- Approves changes in construction
- Performs planning and design of County of Kauai “in-house” construction projects by directing and conducting the preparation of plans, specs, and estimates
- Initiates and supervises hydraulic and hydrologic studies for determination of drainage and grading compliance
- Collaborate with interdepartmental agencies such as Planning Department and the Mayor’s Office

Joel O. Bautista, PE

Email: jbautista@kauai.gov

Cell: 619.851.0307

Office: 808.241.4153

County of Kauai, Department of Water – Civil Engineer III

June 2016 – May 2018

Construction Management Division

- Supervise and manage construction and construction management firms; and perform field inspection of engineering and water facility projects
- Oversee and track project budgets, funds, and payrolls with Fiscal Department
- Prepare and process professional services and construction procurement and selection documents
- Interprets construction plans and specifications and makes recommendations on proposed design or field changes
- Performs constructability and design review for DOW CIP projects

County of Kauai, Department of Water – Civil Engineer I, II

Feb. 2014 – May 2016

Water Resources and Planning Division

- Analyze and interpret Water Master Plans for large subdivisions and private developments
- Aid in the review of the Kauai, “Water Use and Development Plan”
- Review and approve Land Use, Zoning, SMA, and Building Permits
- Draft responses to water service requests and inquiries
- Assist in the review and analysis of water restriction policies and reassessing source and storage tracking for water service zones
- Manage and approve commercial developments according to determined water demand budgets
- Track and monitor Water Credits Agreement and Storage tank allocation for Department of Hawaiian Homelands
- Evaluate and estimate projected costs of feasible alternatives for future Source projects, including proposed Moloaa/Kilauea Wells projects.

California Department of Transportation – Transportation Engineer

Nov. 2012 – Jan. 2014

Local Assistance and Planning, Eureka, CA.

- Assisted with engineering tasks on multiple Safe Routes to Schools Projects, Emergency Relief Projects, Highway Bridge Program Projects
- Ensured that project proposals for Local Assistance Projects conformed with Federal, State, and Local regulations and policies.
- Reviewed funding program applications, financial agreements, final design plans and specifications, detail estimates, construction contract documents and change orders, pay quantities and progress estimates, invoices, and final reports for project completion.

Schatz Energy Research Center – Docent/Intern

Sept. 2011 – May 2013

Arcata, CA.

- Presented at career fairs and community festivals, spoke as guest lecturers in classrooms, and guided tours of SERC’s fuel cell laboratory and solar hydrogen system in Trinidad, CA.
- Taught interactive lectures, hands-on activities, games, and physical demonstrations on SERC technology such as the Stack-in-a-Box® portable fuel cell system in classroom and public demonstrations.

Redwood Coast Energy Authority – Program Assistant

Oct. 2011 – July 2012

Eureka, CA.

- Assisted Program Specialists with Community Development Block Grant Programs and identified energy saving methods for reducing energy waste, air pollution and related energy costs for clients.
- Supported the research and development of sustainable energy technologies for public and private entities operating in Humboldt County

Michael Moule, PE, TE, PTOE



Michael has more than 30 years of progressive traffic and transportation engineering experience, including traffic calming, conceptual design for "Complete Streets," and planning improved bicycle and pedestrian facilities. His projects accommodate all modes of transportation in order to help cities and states meet their mobility, economic development, safety, and quality of life goals. He has significant innovative design experience and specializes in improving conditions for non-motorized users without degrading motor vehicle capacity. Michael routinely leads community planning processes and training sessions to give citizens the basic skills they need to develop and review street design solutions.

EDUCATION

BSE, Civil Engineering, Princeton University, 1993

REGISTRATIONS AND CERTIFICATIONS

- ◆ Professional Engineer:
 - California (Number 77875)
 - Hawaii (Number 15696)
 - North Carolina (Number 25342)
 - Oregon (Number 51066)
- ◆ California Traffic Engineer (2610)
- ◆ Professional Traffic Operations Engineer (PTOE)

RELEVANT EXPERIENCE & QUALIFICATIONS

County of Kauaʻi, Hawaiʻi

Chief Engineer, 2014-Present

- ◆ Michael works to enhance Kauaʻi's livability through engineering design and implementation. He is responsible for the design of all of Kauaʻi County's streets, roads, and other transportation facilities, and he and his staff enforce County codes related to civil engineering on all private property on Kauaʻi.
- ◆ Michael's transportation projects on Kauaʻi include Līhu'e Town Core Mobility and Revitalization Project, , Hanapēpē Road Complete Streets, Poʻipū Road Safety and Mobility Project, Eīwa Street Transit Hub, Hardy Street Complete Streets Improvements, Puhi Road Rehabilitation project, Maluhia Road and Kōloa Road Improvement Project, Olohena Road Improvements Project.

PREVIOUS EXPERIENCE

Nelson\Nygaard Consulting Associates Inc.

Principal Transportation Engineer, 2010-2014

- ◆ Michael led a team of staff focused on engineering and design of complete streets that accommodate pedestrians, bicyclists, motorists, and transit.

Livable Streets, Inc.

Founder and President, 2002 - 2011

- ◆ Michael Moule formed Livable Streets, Inc. to assist state and local governments in transforming street and highway networks to efficiently accommodate all modes of transportation.

City of Asheville, NC

City Traffic Engineer, 1999 - 2002

- ◆ Michael joined the Asheville Engineering Department to provide a balanced approach to transportation engineering for the city. He used his specific experience in non-motorized transportation combined with an overall background in traffic and civil engineering to provide the City with a transportation system that serves all users.

Oregon Department of Transportation (ODOT)

Transportation Engineer, 1993 - 1999

- ◆ **Project Coordinator/Pedestrian and Bicycle Coordinator - Region 4, Bend, Oregon.** Transferred to Region 4 to design and administer construction of the downtown portion of the Bend Parkway, an urban expressway constructed through Bend. He used his expertise in pedestrian and bicycle accommodation to minimize the negative impacts that this new facility and other projects in Region 4 have on non-motorized users.
- ◆ **Bicycle & Pedestrian Facility Specialist, Bicycle & Pedestrian Program, Salem, Oregon.** Primary responsibility was to ensure that all construction projects on Oregon's highways included appropriate accommodations for pedestrians and bicyclists. His secondary responsibility was to work with local governments to improve conditions on their roads.

AFFILIATIONS

- ◆ Association of Pedestrian and Bicycle Professionals; past President
- ◆ National Committee on Uniform Traffic Control Devices; Technical Committee Member; Former Council Member
- ◆ Institute of Transportation Engineers; Member
- ◆ League of American Bicyclists; Member and LCI #1150

Marissa Kunsch
Marissa.kunsch@honolulu.gov - 808.768.2292

EXPERIENCE

City and County of Honolulu Office of Climate Change, Sustainability and Resiliency, Honolulu, HI Oct 2022 – Present
Energy Efficiency Specialist

- Supports and manages the City's Better Buildings Benchmarking program for large commercial and multi-family buildings to report energy and water use annually. Additionally supports management of the design process for an Affordable Green Housing Retrofits Program (AGHRP) for future implementation to create a one-stop-shop for affordable housing populations to receive green retrofits and direct consulting to reduce energy burdens and support building decarbonization.

Hawaii Energy / Leidos, Honolulu, HI Sept 2019 – Oct 2022

Energy Advisor

- Oahu based Restaurants, Grocery Stores, and Condos / AOAOs, providing energy efficiency consulting services and bill analysis support. Supported creation of refrigeration rebate program, and Grocery Energy Efficiency Assessment program. Energy efficiency targets are in line with the Hawaii State renewable energy goals, and guided by the Public Utilities Commission.

Energy Toolbase, Honolulu, HI June 2018 – Sept 2019

Utility Rates Analyst

- Key member of data team with responsibilities to update global database and analyze electric bills for residential and commercial customers. Global database included managing utility data for all electric utilities in the United States, as well other countries including Europe and Australia. Utility data was used to accurately propose the economics of installing solar for small and large scale facilities.

Sierra Club of Hawai'i, Honolulu, HI January 2018 – May 2018

Capitol Watch Program Intern

- Capitol Watch Program intern for various priority environmental bills related to waste management and recycling, as well as clean energy and oceans, amongst other climate change related bills. Assisted in written and oral testimony, as well as preparing priority bill updates for Sierra Club members and social media pages.

Hawai'i State Energy Office, Honolulu, HI January 2017 – May 2017

Hawai'i Green Business Program Intern

- Responsibilities include organizing energy metric data, research, and business outreach. The program offers green hotel, restaurant, office, and event certification through a multi-step process. Skills learned include energy metric calculation and analysis, as well as an insight on energy efficiency measures for local businesses.

Waianae Mountains Watershed Partnership (WMWP), Honolulu, HI May 2015 – July 2015

Volunteer Intern

- Skills acquired include knowledge of Hawaiian culture, watershed management plans, and agriculture. Specializing in resource conservation and environmental health.

EDUCATION

Hawai'i Pacific University, Honolulu, HI

- Masters of Arts, Global Leadership and Sustainable Development - May 2018

Areas of Study: Environmental History, Sustainable Development, and Climate Change.

Student Associations: Co-Founder Surfrider Foundation Club HPU Chapter – January 2018

- Bachelor of Science, Environmental Science – May 2016

Areas of Study: Methods of Environmental Science, Biology, and Sustainability.

Student Life: Captain of Women's Cross Country Team. 4-year athlete with scholarship. Student Athlete Advisory Committee (SAAC) representative.

Mallory Choy Fujitani
5210 Oio Drive
Honolulu, Hawaii 96821
email: malloryfujitani@gmail.com / ph: 542-3330

EXPERIENCE

State of Hawaii Hawaii State Public Library System Special Assistant to the State Librarian

June 2017 - Present

- Responsible for statewide coordination and management of repair, maintenance and construction at all 51 HSPLS facilities on 6 islands. Oversight includes working with multiple users within the Library System to identify and address users' facility needs; identify, develop and manage ongoing and new improvement projects at libraries statewide; advocate, manage and provide oversight for general funded and CIP-funded library projects; collaborate with State departments and agencies and consultants to ensure successful outcome on all 40+ library facilities construction projects from initiation to completion.
- Responsible for actively tracking and managing the Legislative process on behalf of the Library System, including actively advocating for continued construction funding to bring improvements and efficiencies to library facilities such as photovoltaic systems, LED lighting, EV charging stations.

State of Hawaii Department of Taxation Special Assistant to the Director

February 2011 - June 2017

- Identify and analyze issues facing the Department of Taxation for the Director and Deputy Director; develop strategy, propose solutions, and identify resources needed to meet objectives
- Coordinate the Department's review and analysis of all tax legislation; manage verbal and written communication of Department's position and analysis of all tax legislation. Meet with various members of the State Legislature, other government agencies, stakeholder groups and taxpayers to articulate the impact of legislation on Department operations and policies
- Organize, coordinate and manage the Department's annual workshop series for tax practitioners. Provided oversight and management of regional conference co-sponsored by the Department, including identification of speakers, coordination and production of materials, identification and acquisition of materials and goods for all conference participants. Develop opportunities and identify resources to assist with educating taxpayers and practitioners.
- Develop communication strategy to address public information requests from media, taxpayers and other government agencies; advise and guide Department employees on confidentiality requirements and requests for information

- Provide advice and guidance to various Department managers and supervisors on non-tax matters (including personnel and management issues), including updating processes and procedures to bring efficiency to Department operations.

State House of Representatives

August 2009 – February 2011

Office Manager for Representative Scott Saiki

- Managed the Representative's legislative office, including handling all administrative and personnel matters, supervising temporary legislative session staff, drafting correspondence to constituents, and providing research support on legislative matters for Rep. Saiki
- Coordinated projects involving the community, business and government stakeholders; provided support to the Representative and district residents

Honolulu City Council

January – June 2009

Senior Advisor to Councilmember Duke Bainum

- Managed the Councilmember's legislative office, including handling all administrative and personnel matters; supervised legislative staff; identified and coordinated resources needed for the implementation of the Councilmember's policies; worked with community, business and government stakeholders on various projects and issues
- Researched and analyzed all legislative issues presented to the Honolulu City Council; reviewed and developed policy recommendations for the Councilmember

SKILLS AND STRENGTHS

Highly motivated individual with the ability to manage and coordinate multiple projects and staff concurrently. Able to work well with others and as part of a team. Excellent oral and written communication skills. Quick learner and problem solver. Able to develop and implement plans, and identify needed resources. Knowledge of State and City government and its operations.

EDUCATION

1988 Juris Doctorate

University of Southern California

Member of the Hawaii State Bar Association since 1989 (JD#4905)

1985 Bachelor of Science (Emphasis in Finance)

University of Southern California

RICHARD J. Y. LOUIS, PE

717 Honua Street
Honolulu, HI 96816

(808) 551-2007
rlouishi@gmail.com

EXPERIENCE – Based on a minimum of a 40 hour work week.

State of Hawaii, DAGS/CSD –

Acting Administrator, CSD – January 2022 to present.

- Responsible for the supervision and administration of the division's three operating groups: Janitorial, Grounds, and R & A; Procurement, Administrative staff, and Management Analyst. The duties require professional engineering expertise during the review of CSD projects (i.e. CIP, repair) and planning of maintenance projects.

Acting Program Manager, Engineer VI – September 2021 to January 2022.

- Directed and planned R & A's larger repair projects and the review of the design of the CSD CIP initiated projects.

State of Hawaii, DAGS/Project Management (PM) – February 2016 to January 2020.

Project Coordinator

- Responsible for the overall coordination for new assigned DAGS' construction projects which included: the negotiation of the design consultant's fee, approval of the fee and the fee contract, the final scope of project's work (i.e. collaboration with the user agency and consultant), completion of the final design, project documents for advertisement and bid to contractors, awarding the project to the qualified low bidder, overseeing the processing of all government permit/use approvals (i.e. building permit, EIS), serves as DAGS' spoke person for public testimony, seamlessly transfers the construction phase of the project to other DAGS branches, provided periodic field inspections during the project's construction, and collaborates/assist the consultant until the project is satisfactorily completed. The 30+ projects under my direction were from user State agencies which included the Department of Health, Hawaii State Libraries, Department of Agriculture, and Public Safety Department (PSD).

HawaiiGas (The Gas Company) –

Technical Sales Engineer, October 2009 to February 2016

- Statewide duties were to initiate and secure new statewide residential and commercial gas loads by influencing the various development decision-makers (i.e. new residential and subdivisions with Castle & Cooke, A&B and DR Horton and commercial projects with MacNaughton/Kobayashi Groups). My professional engineering expertise provided each project's cost estimate, IRR justification, new gas facilities design with the developer's consultants, and directing HawaiiGas installation crews.
- Integrated our internal departments' necessary workflow with our new gas customers and their development staff and designers to seamlessly incorporate our gas service.
- Supervise staff engineers to design our gas piping and equipment on a timely basis and integrate with our customers' design and construction teams.

Project Manager/Engineer, Operations Department - December 1999 to October 2009.

- Managed and directed field personnel (20+) during the installation of new and replacing old gas equipment (i.e. underground piping). Professional engineering expertise used to plan, design, calculate estimates, receive the approval of the IRRs (budget), and project managed office and field personnel in the installation of gas piping (i.e. 7000 feet of new gas main renewal on Kalanianaʻole Highway from Kalani High School to Aina Haina in 2001; and directional bored 7000+ feet of new 4-inch gas main for UH JABSOM Med school (2004)).

Commercial Sales Manager/Account Executive - December 1993 to December 1997.

- Managed commercial gas customers to utilize our gas services (i.e. gas equipment and maintenance of gas equipment).
- Provided professional engineering design to external decision makers to design for our gas (i.e. mechanical engineers, architects) and HawaiiGas engineers/operation staff.

Manager/Senior Project Engineer - December 1990 to December 1993.

- Utilizing professional engineering experience convinced decision makers (i.e. developers) to utilize our gas services. Also negotiated (approval of the IRR/budget), planned, designed the installation of our gas service to the 500+ homes at Kekuili Village IV at Kapolei, 400+ house lots at the City's Ewa Villages, and gas pipe for second phase of the commercial shopping center at Kapolei.
- Provided professional engineering design to external decision makers to design for our gas facilities (i.e. meters, piping).

Distribution Engineer - April 1987 to December 1990

- Using my professional engineering expertise, I directed/supervised our crews (20+) to perform gas repairs, maintenance, and new installations.
- Planned, designed, and project managed (approval of the IRR/budget) field and office personnel during the design and construction of the new gas mains (i.e. 13,000 feet of new 6-inch gas main for Ewa Gentry (1988)).

Construction Management Engineer, Dept. of Navy, Honolulu, HI - April 1986 to April 1987.

- Managed/coordinated as a licensed engineer the contractors to complete the awarded Military Construction (MCON) projects on Oahu and Midway Island.

Field Project Engineer, Hawaiian Dredging & Construction Co., Honolulu, HI, August 1980 to April 1986

- Directed/organized, utilizing my professional engineering expertise, our on-site personnel and sub-contractors (project's budget) during the construction of the project (i.e. Honolulu District Court, Waikiki Beach Tower, old Maui Prince Hotel, LERU (Light Ends Recovery Unit) at the old HIRI refinery (now PAR) and Kaneohe MCAS).

Civil Design Engineer, Gray Rhee & Associates, Honolulu, HI, February 1979 to August 1980

- Designed roadways/drainage systems and directed draftsmen to complete plans (i.e. Hawaii Loa Ridge).

STACEY A. ALDRICH
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EDUCATION

Master of Library Science
Bachelor of Arts, Russian Language & Literature

University of Pittsburgh 1992
University of Pittsburgh 1991

EXPERIENCE

Hawaii State Public Library System
State Librarian

Honolulu, Hawaii
April 2015 – Current

The Hawaii State Public Library System (HSPLS) is made up of 51 branches across 6 islands, and is the only single statewide library system in the country. HSPLS has a staff of over 500 and a budget of over \$40 million, including \$1.3 million in Library Services and Technology Act (LSTA) funding. The library has over 950,000 registered library cards, and provides more than 10,000 programs a year to meet the needs of each unique community. Responsible for strategically managing the physical and virtual spaces and building the future of HSPLS.

Pennsylvania Department of Education| State Library of PA
Deputy Secretary for the Office of Commonwealth Libraries

Harrisburg, Pennsylvania
November 2012 – March 2015

The State Library of Pennsylvania is part of the Pennsylvania Department of Education (PDE) and has two key roles: (1) collecting, preserving, and connecting Pennsylvanians to our collective memories and information resources and (2) developing library programs and services statewide to ensure that everyone has access to the resources they need to be successful. The State Library had a staff of 47 (33 positions filled) and a budget of \$61 million, including over \$5 million in Library Services and Technology Act (LSTA) funding, \$54 million in public library funding, and \$1.9 million for the State Library. Responsible for the development and management of multiple statewide programs, leadership in the development of libraries, and the management of the State Library of Pennsylvania and its collection.

California State Library
State Librarian, Acting State Librarian, & Deputy

Sacramento, California
August 2007 – October 2012

The California State Library is the state's information hub, preserving California's cultural heritage and connecting people, libraries and government to the resources and tools they need to succeed and to build a strong California. The State Library has a staff of 147 and a budget of \$41 million, including over \$15 million in Library Services and Technology Act (LSTA) funding. Responsible for the development and management of multiple statewide programs, leadership in the development of libraries, and the management of the California State Library physical locations and its collection.

Omaha Public Library
Assistant Director

Omaha, Nebraska
October 2005 – July 2007

Omaha Public Library is mid-sized urban library system with 10 branches, a budget of \$9.6 million dollars and a staff of about 150. Responsible for support and leadership in the areas of facilities, technology, training, and policy development.

Division of Library Development & Service, MD Dept. of Ed.
Branch Chief, Public Libraries and State Networking Branch
Public Library Consultant

Baltimore, Maryland
June 2000 – October 2005
March 1996 – December 1999

Central state library agency for the State of Maryland Responsible for providing leadership, research, training, planning, and promoting the coordinated development of the twenty-seven public library systems in the state. The Division of Library Development and Services is responsible for the development of policies and professional standards for administration of both state and federal grants to libraries. Served in multiple roles in this organization with responsibilities in leadership and development of robust libraries in Maryland.

Coates & Jarratt, Inc.
Senior Associate

Washington D.C.
January 2000 – June 2000

A futuring think-tank that provided trend analysis, future thinking skills workshops, and facilitated future thinking processes for both small businesses and Fortune 500 companies. Spent 6 months sharpening futuring skills for critical thinking about the future.

Hood College
Information Technology Librarian

Frederick, MD
October 1992 – March 1996

Hood College is a small private college library in western Maryland, with service to approximately 2,000 students, faculty, staff, and the surrounding community. Responsible for the day-to-day management of technology, website development, new service development, training and reference work.

ASSOCIATIONS

- American Library Association
President for the Association of Specialized and Cooperative Library Agencies 2013
- Chief Officers of State Library Agencies (*President from 2018-2020, served as Treasurer 2017-2018*)
- Public Library Association
- Hawaii Library Association
- BETA PHI
- Association of Professional Futurists (*Served as a Board member from 2007-2010*)

RECOGNITION & AWARDS

- LINK AMERICAS Foundation Knowledge Award for vision and leadership in the area of digital literacy, 2012
- Selected as one of fifty-five leaders in the library profession by LIBRARY JOURNAL in their *Annual Movers & Shakers 2003: The People Who are Shaping the Future of Library Supplement*
- Maryland Library Association special recognition award received for work done on the SAILOR project, a statewide network, 1995

PRESENTATIONS

Designed and presented to a wide variety of audiences which include: Maryland State Department of Education Board members, public library administrators, library staff at all levels, school library media specialists, trustees, friends of the library, special librarians, communities, Fortune 500 companies, government agencies, and the public. The following is just a sample of presentations and workshop topics:

- The Great Sort: Considering a Signal That is Impacting the Future, Hawaii Library Association 2023
- Digital Equity in Hawaii & Libraries, American Library Association Annual Conference 2023 (Panel)
- Libraries a Hundred Years Back and a Hundred Years Forward: Same & Different, Hawaii Library Association 2022
- Perspectives of the Future, Hawaii Library Association 2021
- The Road Ahead: Libraries in an Uncertain Future: Part Two, American Library Association Mid-Winter, 2021
- The Retro Future Library, OCLC Library Futures Conference, 2019
- From Idea to Action: Pitching your Idea and Building a Plan, Hawaii Library Association, 2018
- Pondering Ritual and the Future of Libraries, Virtual Library Staff Development Day, 2017
- Public and School Libraries: Strengthening Partnerships to Support Students, School Library Conference, 2017
- Future Forward, Hawaii Library Association Keynote, 2015
- Reboot Your View of Libraries, TedEx Oil City Pennsylvania, 2014
- Edge Initiative Presentation, ALA Midwinter 2014
- Education in the Postliterate Age: Get Ready, the Future's Already Here! – World Future's Society 2011
- Libraries, Democracy and the Public Good – Salinas California 2011

STACIE M KANESHIGE

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stacieko1@outlook.com

EDUCATION

Master of Library & Information Studies
Bachelor of Arts, History

University of Hawaii 1997
University of Hawaii 1994

EXPERIENCE

Hawaii State Public Library System

Managing Librarian II, Director of Public Libraries Branch

Honolulu, Hawaii
December 2011 – Current

The Hawaii State Public Library System (HSPLS) is made up of 51 branches across 6 islands, and is the only single statewide library system in the country. HSPLS has a staff of over 500 and a budget of over \$35 million, including \$1.3 million in Library Services and Technology Act (LSTA) funding. The library has over 950,000 registered library cards, and provides more than 10,000 programs a year to meet the needs of each unique community. Responsible for the daily operations of 49 branch libraries across 6 islands.

Hawaii State Public Library System

Librarian V, Manager of Kapolei Public Library

Kapolei, Hawaii
February 2008 – December 2011

The Kapolei Public Library is the third largest public library in Hawaii at 35,000 square feet and the second largest for the island of Oahu. Serving as a regional, Kapolei balances public library services on the West side of the island with a collection of 129,000 items. Designed to provide the Leeward coast with services similar to those provided on the east by HSPLS's flagship location, the Hawaii State Library. Staffed with 23 positions, this location serves as the anchor for programming and staffing support for the region. Responsible for the overall operation of the library and daily management of the facility.

Hawaii State Public Library System

Librarian IV, Head of Adult Services for Kapolei Public Library

Kapolei, Hawaii
July 2004 – January 2008

The adult section of the Kapolei Public Library controls the collection management for the library's Adult Fiction, Non-Fiction, Hawaiian, Audiovisual and serials collections. Responsible for budget management, library programming, reference assistance and supervision of the two professional and two paraprofessional positions assigned to this section. Position acts as Librarian-in-charge when the Manager is not on site.

Hawaii State Public Library System

Librarian IV, Manager of Hawaii Kai Public Library

Honolulu, Hawaii
September 2000 – June 2004

Hawaii Kai Public Library is mid-sized urban branch library with a staff of 8. Responsible for support and leadership in the areas of facilities, collections, training, and procedural development.

Hawaii State Public Library System

Librarian III, Young Adult Librarian for Mililani Public Library

Mililani, Hawaii
June 1998 – September 2000

Mililani Public Library is a mid-sized branch library providing services to area schools and the bustling communities of Mililani Town and Mililani Mauka and the surrounding areas. Responsible for the day-to-day management of young adult collection, programming and reference work.

ASSOCIATIONS

- American Library Association
- Public Library Association
- Hawaii Library Association
- Phi Eta Sigma
- Phi Kappa Phi
- Mortar Board

RECOGNITION & AWARDS

- Friends of the Library of Hawaii Librarian of the Year, 2008
- 2006 Award for Sustained Superior Performance
- 1997 Robert M. Blair Award Recipient

Rafael Bergstrom: Curriculum Vitae

Address: 2803 Puuhonua St. Honolulu, HI 96822
Phone: (808) 445-2085
Email: rafael@sustainablecoastlineshawaii.org raftography@gmail.com

Employment History

02/19 – Present **Executive Director, Sustainable Coastlines Hawai‘i**

- Responsible for overseeing the administration, programs, and strategic plan for the leading plastic pollution cleanup and education non-profit in the State of Hawai‘i
- Meet organizational fundraising goals through grant writing, partnership development, and targeted campaigns
- Conduct Hawai‘i-wide cleanups and community experiences on beaches most effected by plastic pollution with inclusion of innovative education campaigns
- Inspire climate action using consumer choice education to create reachable individual and community goals that connect our everyday actions to larger global issues
- Manage extensive partner, sponsor, and media relationships
- Challenge businesses to reinvent themselves in a circular economy model
- Manage a small staff and inspire continued participation from a large group of dedicated core volunteers
- Bring innovation to waste diversion efforts, composting, and upcycling in Hawai‘i

01/14 – 02/19 **Surfrider Foundation O‘ahu Chapter Coordinator**

- Local chapter director for national non-profit with a mission of protecting the world’s oceans, beaches, and waves through an empowered volunteer activist network
 - Stormwater runoff pollution reduction campaign manager & Water quality testing leader/director
 - Overseeing Rise Above Plastics campaign to reduce single-use plastic consumption and marine debris issues
 - Grant writing & reporting
 - Protecting public beach access and promoting sustainable development
- Conducting communication and outreach for O‘ahu chapter
 - Managing online communications such as chapter email, social media, website upkeep, and fundraising campaigns
 - Coalition building between fellow non-profits, NGO’s, State and local agencies
 - Leading community education workshops and seminars (beach cleanups, public meetings, neighborhood board presentations, tabling and in-class education for all levels of students)
- Being a liaison for our chapter with the Hawai‘i State Legislature & Honolulu City/County Council
 - Creating and crafting legislative bills, lobbying in public hearings, writing testimony
 - Organizing civic empowerment tutorials and workshops

01/13 – Present **Owner/Photographer of Raftography (Rafael Bergstrom Photography)**

- Established personal photography website (www.raftography.com) in 2010
- Published **Hana Hou! The Magazine of Hawaiian Airlines** : Two photos in *Heads Above Water: The University of Hawai‘i’s Sea Level Center monitors the rise and fall of Earth’s oceans – but mostly the rise.*
- Tour Photographer for **Live, Laugh, Love Tours** Bhutan & Bangkok March 2016 | Greece August 2014
- Published **The Atlantic**: “The Ghost of Climate-Change Future” – Cover Image, May 30th 2017.
- Published two photos in **Eddie Aikau: Hawaiian Hero**, Best Press Inc. 2016
- Published in **National Geographic Your Shot** story “The Road” – Image Title: “A Tale of Two Roads”
- Published in **National Geographic Your Shot** Daily Dozen June 24th, 2015 – Image Title: “Aerial Drop-In”

- 3rd Place **Canon Honolulu** Amateur Photo Contest, 2013, Image Title: “Charging Waimea”
- Winner of a **People’s Choice Award** in the mammals category at the **18th Annual Wildlife Society Conference** for my shot of the endangered Hawaiian Monk Seal

01/11 – 10/14 **University of Hawai‘i at Mānoa – Junior Researcher, Research Assistant: GIS/Remote Sensing Lab, Teaching Assistant: GIS for Natural Resource Managers**

- Worked on Remote Sensing and GIS related research in Dr. Tomoaki Miura’s lab, specifically using NASA MODIS satellite data
- Set up phenology networks and analyzed results of field camera based systems
- Research in coordination with US Forest Service and USGS involving Gross Primary Production and Ecosystem Respiration
- Facilitated weekly lab sections and solved ArcGIS related problems
- Honorable Mention for NSF’s 2012 Graduate Fellowship
- Provided introductory lectures to each lab assignment and GIS related concepts

06/11 – 08/11: **KUPU: Hawaiian Youth Conservation Corps (HYCC) – AmeriCorps Team Leader**

- Led a group of Hawaiian youth on conservation efforts on the island of O‘ahu
- Worked on invasive species projects, native species out-plantings, wetland restoration, Hawaiian cultural site restoration, and environmental education
- Served as teaching assistant for HYCC associated UH Mānoa NREM

03/05 – 09/08: **Professional Baseball Player – Starting Pitcher & Youth Coach**

- **Bridgeport Bluefish, Atlantic League:** Volunteered in the local community reading to inner city elementary school children, signed autographs, made appearances at Special Olympic events, and worked camps teaching children baseball skills
- **Israel Baseball League:** Pitched for the Bet Shemesh Blue Sox, Inaugural Season Champions, Assisted with outreach programs in the inaugural season of the league such as hospital visits, autograph signings, tree-planting ceremonies, and newspaper interviews
- **Pine Rivers Rapids: Brisbane, Australia & Haar Disciples: Munich, Germany**

Formal Education

2010 – 2013: **Natural Resources & Environmental Management (NREM), Master of Science**
University of Hawai‘i at Mānoa

- National Science Foundation Fellowship: Honorable Mention (2012)
- Relevant Coursework: Urban Environmental Problems, Evaluation of Natural Resource Management, Natural Resource Economics, Community-Based Economic Development, Wildlife Ecology & Management, Landscape Ecology, Biometry/Advanced Biometry, Plant-Animal Interactions, Degradation of Human-Based Ecosystems
- Certificate of Specialization in Ecology, Evolution, and Conservation Biology (EECB)

2009 – 2010: **Ecology Field Certificate Program**
Sacramento City College

- Relevant Coursework: Field Botany, Environmental Regulations, Natural History, Intermediate Geographic Information Systems (GIS), Environmental Biology, Introduction to Green Building, Photojournalism, Autobiography Writing Workshop, Fiction Writing Workshop

2000 – 2004: **BA in Communications; Minors in Political Science & History**
University of California, San Diego

- Five time Provost’s Honors recipient and Verizon Academic All-American (Baseball)

- Four Year letter winner on Varsity Baseball with the following honors: Team Captain, Coach's award, MVP pitcher, Rookie of the Year, and Outstanding Academic and Athletic Achievement (National Student-Athlete Day 2004)

Professional Affiliations

06/18 – Present **Zero Waste O'ahu Co-Founder & Board Member**

- Board Secretary
- Established coalition based working group to transition O'ahu's economy and lifestyle from a waste-based model to one of a circular economy
- Participated in the Honolulu Integrated Solid Waste Management Plan update (ongoing) and helped to establish a source reduction working group
- Successfully secured seed money for the organization through grant writing
- Co-produced and moderated the first Zero Waste Summit in July 2018
- Website designer

01/15 – Present **Civics Is Sexy: Founder**

- Created, led, and organized annual civic engagement workshop
- Empowered and educated over 600 participants in the nuances of political engagement

07/16 – Present **NOAA Marine Debris Action Plan Working Group**

- Key representative in planning NOAA strategy for Hawaii's marine debris action plan
- Group leader for the "Prevention" team – responsible for continued efforts to update and disseminate information amongst action plan participants

Community/Civic Involvement

06/19 – 09/20 **State of Hawai'i Plastic Source Reduction Working Group**

- Non-profit member representing Sustainable Coastlines Hawai'i collaborative providing feedback on source reduction plans to inspire change in the State's use of plastic

09/19 – Present **County of Honolulu Storm Water Utility Stakeholder Advisory Group Member**

- Non-profit member representing Sustainable Coastlines Hawai'i on county-wide planning to implement a stormwater management plan designed to reduce the pollutants entering our waterways and nearshore waters

03/19 – Present **Hui Aloha**

- Volunteer work attempting to form community in the O'ahu houseless community using service-based cleanups as a catalyzer of connection

03/18 – Present **Honolulu County Integrated Solid Waste Management Plan Update**

- Advisor and public participant to non-profit collaborative providing feedback on source reduction plans to inspire change in O'ahu's waste management protocols

09/17 – Present **Hawai'i Reef & Ocean Coalition (HIROC) Member**

- Community participant and advisor in legislative group design to foster collaboration at the Hawai'i State Capitol in regards to environmental stewardship

05/11 – 12/13 **NREM Graduate Student Organization (GSO) President/Member**

- Organized monthly club meetings and events and attended faculty meetings to create dialogue between the student organization and teachers
- Facilitated service events such as beach cleanups and work with other local conservation organizations

10/11 – 12/11 **Pacific Rim Conservation**

- Volunteered setting up transects for rat tracking tunnels and traps on one of Oahu's near shore islets where wedge-tailed shearwaters (*Puffinus pacificus*) nest in protected habitat

01/11 – 12/11 **Ho'oulu 'Aina Nature Preserve**

- Worked in coordination with a Kalihi Valley (O‘ahu, HI) community on a feasibility study involving use of invasive albizia wood in cultural carving workshops as part of a Community Based Economic Development class
 - Participated with other volunteers on monthly “third Saturday workdays” involving invasive species removal, native plantings, cultural awareness, and building projects
- 10/10 **Punalu'u Watershed Restoration Project, Cardno ENTRIX, Kamehameha Schools**
- Assisted in sustainable flood mitigation by implementing a stream restoration plan
 - Learned surveying techniques and stream flow analysis tools
- 01/09 – 03/09 **Elkhorn Slough Foundation**
- Removed invasive species, maintained erosion control systems, planted native trees and shrubs in an upland estuarine reserve on Monterey Bay, CA

Professional Development

- 02/19 – 05/19 **Truth, Racial Healing & Transformation, University of Hawai‘i at Mānoa**
- Program designed to bridge community gaps and foster understanding of racial inequity, while simultaneously uplifting traditional cultural knowledge
- 01/19 **Citizen University, Civic Seminary, Seattle, Washington**
- Worked with a cohort from across the US and being trained by Eric Lui in the art of civic engagement
 - Built skills to lead civic seminars and write engaging speeches surrounding the power of community engagement in the civic process
- 11/17 **Art of Hosting: Facilitation Workshop, Impact Hub Honolulu**
- Training centered on a highly effective way of harnessing the collective wisdom and self-organizing capacity of groups of any size
- 07/13 **ESRI User Conference, San Diego, California**
- Attended workshops and information sessions designed to expand ArcGIS knowledge
- 10/12 – 12/12 **Nature Writing Course with Wendee Holtcamp (online)**
- Learned how to pitch and write science related stories for magazine publication
- 03/12 **National Science Foundation (NSF): Science, Becoming the Messenger Workshop**
- Training for emerging science professionals in effective ways to translate complex academic knowledge for widespread public consumption



JENNIFER MILHOLEN

RESOURCE RECOVERY PROFESSIONAL

EXECUTIVE SUMMARY

I am a 15 year advocate of zero waste principals and resource diversion through innovative program pilots, data generation, and policy change in Hawai'i.

MY EXPERTISE

- Compost regulations, permitting, and site development
- Waste audit design & analysis
- Waste reduction legislation drafting and advocacy
- Circular System mapping and design

HOW TO CONTACT ME

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PERSONAL REFERENCES

Natalie McKinney
Senior Program Manager
Kōkua Hawai'i Foundation
natalie@kokuahawaiifoundation.org
(808) 638-5145

Ari Patz
Regional Sales Manager
Sustainable Island Products
ari@sustainableislandproducts.com
(808) 391-7134

LEADERSHIP AND PROJECT MANAGEMENT

Founder & Director of Efficiency First, LLC - A resource recovery consulting company (2016 to present)

Provide professional guidance, expertise, and planning for private and institutional clients in the areas of:

- Waste stream auditing & reduction planning
- Zero Waste event design, planning & execution
- Composting facility site design, permitting, regulatory compliance, feedstock planning & management
- Municipal waste diversion strategies & campaigns
- Legislative policies & reform targets

Co-Founder & Operations Manager for Full Cycle Takeout (2019 to 2022): Hawai'i's *first* full-service, reusable takeout container program

- Successfully co-applied for and managed a federal NOAA Marine Debris Prevention Grant for a 2 year pilot program addressing the generation of disposable packaging in the Hawai'i food service industry
- Designed, developed, and oversaw an active pilot program with 5 staff and 7 restaurants, including program infrastructure, and education and outreach resources

Waste Reduction Coordinator & Program Manager (2016 to 2022): Kōkua Hawai'i Foundation - 3Rs School Program

- Developed waste reduction and marine debris prevention strategies, curriculum, and presentation slide decks, for K-12 schools, universities and colleges of Hawai'i. Over 200 educational and training presentations performed
- Educational resources development and waste reduction advisor for the Hawai'i Dept. of Education, Honolulu Environmental Services (ENV) Division, Office of Climate Change, Sustainability and Resiliency (OCCSR), and members of the Honolulu City Council
- Developed the waste auditing protocol for the island of Kaua'i's school system and coordinated the execution of 95 audit days, in support of the HI Dept. of Education's food waste reduction goals

International Union for Conservation of Nature (IUCN)
Coordinator for the 2016 World Conservation Congress Zero Waste pilot: 12,000 attendee event (2016)

- Developed program operations plans and coordinated the logistics between Hawai'i Convention Center staff, Hawai'i Dept. of Health, IUCN, and local farmers to produce a first-of-its-kind compostables diversion program
- Direct program management & coordination of materials sorting & diversion



JENNIFER MILHOLEN

RESOURCE RECOVERY PROFESSIONAL

EXECUTIVE SUMMARY

I am a 15 year advocate of zero waste principals and resource diversion through innovative program pilots, data generation, and policy change in Hawai'i.

MY EXPERTISE

- Compost regulations, permitting, and site development
- Waste audit design & analysis
- Waste reduction legislation drafting and advocacy
- Circular System mapping and design

HOW TO CONTACT ME

Phone:

(808) 277-7096

Email:

milholen.jennifer@gmail.com

PERSONAL REFERENCES

Natalie McKinney
Senior Program Director
Kōkua Hawai'i Foundation
natalie@kokuahawaiiifoundation.org
(808) 638-5145

Ari Patz
Regional Sales Manager
Sustainable Island Products
ari@sustainableislandproducts.com
(808) 391-7134

AFFILIATIONS & CIVIC SERVICE

President of Styrophobia - a 501(c)3 dedicated to responsible waste management & reduction of single-use plastics & Founding member of Zero Waste O'ahu (2013 to Present)

- Advise policy makers, residents, and Hawai'i visitors on zero waste strategies and emerging system innovation models
- Create pilots demonstrating the effectiveness of diverting resources away from landfill and incineration, while preventing marine debris

Member of the Hawai'i Dept. of Education School Composting Working Group & Community composting advisor (2019 to Present)

- Provide guidance and permitting instructions to community and government composting operations
- Advise leadership on system design and cost/savings analysis for organics diversion and composting

Advisory committee member of the City & County of Honolulu Integrated Solid Waste Management Plan (ISWMP) & the Disposable Food Ware Ordinance 19-30 Administrative Group (2019, 2020)

- Provide research and content recommendations for the development of waste management plans and ordinance administrative rules

Current member of the U.S. Composting Council

- Certified Compost Operator Professional - qualified to advise on site design, operations & maintenance, market development, testing & safety protocols, feedstock management planning
- Dedicated to the development of impactful and efficient composting infrastructure in the state of Hawai'i, in particular decentralized regional networks

EDUCATION

Agnes Scott College - 2001 to 2005

Graduated Magna Cum Laude, 5 time Dean's Honor List
B.A. Biological Sciences

Kristine Kubat 164 Kapaka Street Hilo, Hawai'i 96720 808-747-4246
kristinekubat@gmail.com

Work Experience:

1988 – 1993 Independent lobbyist for environmental and renewable energy issues. Worked with national organizations including the Sierra Club, Natural Resources Defense Council, Greenpeace and Rainforest Action Network.

1989 Energy consultant and administrative assistant to the Puna Community Development Plan.

1989 Independent energy consultant.

1990 Participant in the Hawai'i Public Utilities Commission collaborative process that established a framework for the Hawai'i Utilities Integrated Resource Planning Process.

1990 – 1992 Energy advisor to Mayor Lorraine Inouye as a member of the Hawai'i County Energy Advisory Commission.

1991 – 2007 Advisor to the Hawai'i Electric Light Company as a member of the utility's Citizens Advisory Group.

1992 – 1999 Executive director of Save Hawai'i Foundation, a nonprofit organization based in Puna, Hawai'i.

1992 Director, Big Island Renewable Energy Fair and Solar Concert Pahoa, Hawai'i.

1992 – 1995 Associate of Pacific Synergy, a sustainable development consulting firm based in Honolulu, Hawai'i.

1993 – 1994 Office manager/executive assistant, Suntera Electric Vehicle Design Company, Honoka'a, Hawai'i. Duties included bookkeeping and secretarial work in addition to working as part of a team to design vehicles and develop the company's marketing strategy and comprehensive business plan.

1994 – 1998 Advisor to the Hawai'i State Transportation Planning Office as a member of the agency's Citizens Advisory Board.

1994 Market researcher, U.S. Electricar Sebastopol, California.

1995 – 1999 Senior project developer for Pacific Futures, a sustainable development consulting service funded by Save Hawai'i Foundation. Duties included conducting research, developing projects, securing clients, developing marketing strategies, grant writing and representing clients to the private and government sectors.

1996 – 2000 Executive director for The 'Opu Ali'i Center for Huna Sciences Puna, Hawai'i. Duties included project development, design and production of promotional material and advertising copy, grant writing and representing the cultural tourism project to an international clientele. cul-

1999 – 2000/2001 – 2003 Executive assistant, Honolulu Diamond Sangha Kaimu, Hawai'i. Served as executive assistant to Robert Aitken, Roshi. Aitken Roshi was a retired Zen master, founder of the Honolulu Diamond Sangha and author of eight books. Duties included secretarial work, bookkeeping, assisting with the production of manuscripts, hosting an international following and preparing Aitken Roshi's archives for placement at the Hamilton Library at the University of Hawai'i, Manoa.

2000 – 2003 Founder, Pacific Futures, Inc., a sustainable development consulting service independent of Save Hawai'i Foundation.

2001 Director, Puna Renewable Energy Fair and Solar Concert Pahoa, Hawai'i.

2004 Facilitator, Hawai'i Island Green Development Coalition Roundtable

2005 Administrative assistant, Hawai'i Care and Cleaning, Waikoloa, Hawai'i.

2006 – 2008 Founding editor of *Big Island Weekly*, an alternative weekly owned by Stephens Media, LLC and published in Hawai'i.

2009 Independent media consultant.

2009 Project director for the IPOP Media Mentorship Project at the Kea`au Youth Business Center. Duties included managing a 20-member work force, including 17 Native Hawaiian youth, to produce original video, audio and written news content. This summer program was funded by `Apono Hawai'i and federal stimulus dollars brokered by Alu Like, Inc.

2010 Enumerator for the 2010 Census.

2010 Project director for the *Hawaii Independent Media Mentorship Project* at the Kea`au Youth Business Center. Duties included managing a 22-member work force, including 17 Native Hawaiian youth and five local youth to produce original video, audio and written news content. This summer program was funded by `Apono Hawai'i and TANFF money brokered by Alu Like, Inc.

2010 Founder and CEO of Moku Power, LLC a renewable energy development company holding the franchise for the proprietary PowerTube passive geothermal technology.

2011 Director for the "Ho'olohē" Theater Project at the East Hawai'i Cultural Center. Duties included managing an 8-member work force of Native Hawaiian youth to assist in the development of a musical written by Ms. Kubat. As part of the program, the youth helped cast players and hosted a variety of local talents to provide support and critique the work. This summer program was funded by Alu Like, Inc.

2011 – 2015 Administrative assistant, grant writer and zero waste specialist for Recycle Hawai'i, a non-profit organization dedicated to supporting resource awareness throughout Hawai'i. Duties include coordinating the used motor oil program, grant writing, public outreach and strategic development for the organization.

2012 Host of Justice Radio, an Internet-based talk radio show that supported the formation of the Justice Party nationwide.

2012 – 2014 Columnist for *The Big Island Chronicle*.

2013 – 2015 Freelance writer for HPM.

2017 Field Representative for the U.S. Census Bureau.

2020 – Present Executive Director, Recycle Hawaii

February 2021– November 2022 Office Manager for Hawaii State Senator Laura Acasio

REFERENCES:

Senator Laura Acasio
808-896-4895
lauraacasio@gmail.com

Nicholas Riznyk
808-987-8804
nickriznyk@gmail.com

Kim Coco Iwamoto
808-349-5731
kimcoco@kimcoco.com

Alexander White

PO Box 443, Papaikou, HI 96781 ▪ alexjtwhite@gmail.com ▪ (808) 756-2053

Education

B.A. Geography + Certificate in Planning, UH Hilo. 3.8 GPA w/ high honors, class of 2012.

- Researcher on County's Hawaii Island Food Self-Sufficiency Baseline Study (2012)
- Researcher on State's Stormwater Impact Assessment Study (2013)

Amazon Expedition Program, National Outdoor Leadership School. Class of 2006.

- Traveled 600 km via canoe in wilderness, practicing life-critical leadership principles & conservation

Work History

Recycling Specialist, County of Hawaii. Hilo, HI. Dec 2023 - current

- Oversees recycling and waste reduction programs, including projects and educational activities
- Disseminates materials to schools, community groups, and associations
- Conducts routine feasibility studies, system design, and maintains databases for recycling projects
- Processes forms, conducts research, responds to queries, and assists with complex programs

Owner/Operator, Technic Pacific LLC, Hilo, HI. April 2020 – Nov 2023

- Handyman business servicing East Hawaii; plumbing, electrical, carpentry and appliances
- Temporary pandemic hustle turned full-time gig

General Manager, KapohoKine Adventures, Hilo, HI. April 2013 – Mar 2020

- Managed adventure tour operation with staff of 30+ and 20,000+ customers per year, 7 days/week
- Implemented Zero Waste initiatives that cut all single-use products removing 90% of waste volume
- Extensive practice in the construction and maintenance of mechanical systems and equipment

Assistant Sustainability Planner, Queen Lili'uokalani Trust. Kailua-Kona, HI. July 2012 – Mar 2013

- Study methodology design & data collection to inform design standards of LEED, Smart Growth
- Facilitating community meetings; coordinating with partners, scribing, stimulating dialogue

Volunteerism

Assistant, Wailea Village Historic Preservation Community. Hakalau, HI. Apr 2021 – current

- Preservation of the old Hakalau School and abandoned cemeteries along the Hamakua coast

Assets

- High quality training in non-violent communication & mediation
- Extensive computer skills; Office, Powerpoint, Teams, Photoshop, GIS, CAD, databases...
- Practitioner of resilient design and preparedness; permaculture, CERT, Leave No Trace
- The good judgment & integrity to do the right thing and follow through on commitments



Objective

Work in a satisfying field that supports sustainability and strengthens the needs of Hawai'i.

Experience

Resource Recovery Maui

2018 – 2023

- Event Founder & Producer of Resource Recovery Maui. Researched knowledge masters and coordinated subject area experts to present at the annual event. Secured and engaged sponsors and included political leaders as keynote speakers. Distributed content from the event to local and state district representatives. Produced a virtual library of event content and communicated the access and availability to lawmakers and students. Successfully solicited grants for drought emergency, reclamation material storage, visitor management, rebuilding roadside farm stands and small-scale farm improvements. A registered instructor at University of Hawai'i Maui College as a Waste Stream Consultant.

Farmers Voice Hawai'i

2015 – 2023

- Founder & Editor, of online news forum for agriculture issues. Maintained platform for sustainable and best practice agriculture news. Providing an online presence for local issues that are in need of deserving coverage. This forum has been the repository that has provided advocacy for resource recovery, waste stream issues, watershed health, farming, ranching and workforce housing within local government.

Stand Up Maui

2021

- Event Producer for an affordable housing rally. Planned and produced affordable housing rally's in two locations simultaneously. Coordinated press coverage and event photographers. Produced second wave of press and social media exhibition with post-event content material. Event press coverage reach engaged continental press junkets and unique press venues. Stabilized organization with administrative and social media foundation blocks.

Culture Foundry

2016 – 2017

- Quality Assurance for client websites for CultureFoundry.com. Working remotely, provided and clarified new website content. Regularly inputted data of quality assurance findings into custom database for peer review. Constructed early content architecture of client monthly magazine websites. Periodically filled the need to direct employees to proper administrative procedures.

Hawai'i Farmers Union United

2014 – 2015

- Membership Chair/Graphic Designer – Developed office management databases. Conducted membership analysis, managed digital assets, improved internet prominence and defined office workforce parameters. Cultivated organization's relationship management practices. Produced policy language to improve representation of the Board of Directors and developed procedures for staff, membership and volunteers. Refined organization logo and created info graphic designs for national presentations. Worked as brand ambassador to protect organizations image.

The Maui News

1997 – 2004

- Composing Room Artist / Editorial Support – Job duties included all aspects of newspaper advertising layout and production. Editorial support with website updating and proofing. Provided on-deadline assistance with photo and caption editing. Responsibilities also included digitally illustrating award-winning editorial info graphics.



Education

Seabury High School
College Preparatory

Platt College
Graphic Design

University of Hawaii, Maui College
Liberal Arts

Skills

Strengthen non-profits; risk analysis; project management; capital fundraising campaigns; clarify government policy and procedure; custom database design; and creative communication using live illustrated presentations. My design background has served well in producing visual elements with ease.

I have proficiency in the following computer programs: Adobe Illustrator, FileMaker, MS Excel, Word, PowerPoint and Photoshop. Worked as a teacher's assistant at the University of Hawaii, Maui College in computer design classes. I enjoy helping others learn programs that I am familiar and confident with and I am a fast learner with any newly introduced computer programs.

Community Contributions

County of Maui, Healing Solutions for Homelessness Commission 2021 – 2023 Commissioner

Share Your Mana 2020 – 2022 Volunteer

Kahikinni Game & Land Management 'Ohana 2017 – 2022 Volunteer

Honomanu Restoration Project 2018 – 2022 Volunteer

Hawai'i Farmers Union United 2017 – 2018 Haleakala Chapter Secretary

Seabury Hall Alumni Board 2014 – 2019 Board Member

Kanu o ka 'Aina New Century Public Charter School 2004 – 2009 Local School Board Secretary

Na Leo Kako'o 1998 – 2001 Kula Kaiapuni O Maui Parent Support Organization Secretary

References

Kekoa Enomoto (808) 276-2713

Lisa Darcy (808) 344-5300

Daniel Cohen (603) 397-0550

Letters of Recommendation

Attached

MICHAELA NARTIA

• Director of Administration •

1621 Anapuni St., Honolulu, HI • 808-728-6809 • michaelanartia@live.com

PROFESSIONAL SUMMARY

Driven and detail-oriented professional with a background in biology and 4+ years experience in accounting and nonprofit administration. Highly organized and efficient in moving projects forward. Skilled in working with teams from all backgrounds and promoted to positions of increased responsibility given strong technical and adaptable skills.

EDUCATION

2012 - 2016 • University of Hawaii at Manoa
Bachelor of Arts in Biology

2009 - 2012 • Academy of Our Lady of Guam

EXPERIENCE

Dec 2020 -
Present

Re-use Hawaii

Director of Administration

- Manage all administrative, HR, IT, and financial functions for a medium-size nonprofit under minimal supervision.
- Coordinate organization's annual renewals such as DCCA registration, contractor's license renewal, and fleet vehicle registrations and safety inspections.
- Manage accounts payable and accounts receivable.
- Generate budgets, financial documentation, and reports for grants and fundraising requests.
- Assist program heads and Executive Director with determining and tracking departmental and organizational financial goals.
- Execute annual physical inventory for retail operations on Oahu and Hawaii Island.
- Manage weekly workers' compensation premium payments, employer-provided retirement savings plan (Vanguard 403b), and company health insurance.
- Create annual fiscal budget.
- Maintain short-term and long-term cash flow projections.
- Perform bi-weekly, monthly, and year-end financial analysis to assess organization's profitability.
- Assist outsourced accounting team with month-end/year-end closing.
- Perform orientation and onboarding of new hires.
- Submit and respond to unemployment insurance claims, employment verifications, and workers' compensation claims.
- Establish organization's policies and procedures and generate employee handbook.
- Ensure compliance with State & Federal employment laws and uphold best HR practices.
- Perform installation and manage point-of-sale system (Lightspeed).
- Manage organization's software and hardware devices and resolve all technical issues.
- Coordinate organization's annual tax return filing with CPA.

**Oct 2019 -
Dec 2020**

Re-use Hawaii

Project Developer

- Coordinated site visits with potential deconstruction clients to collect project information and marketed Deconstruction Services.
- Estimated project costs for all size projects including remodels, commercial tenant improvements, whole house tear-downs, and multi-room hotel projects.
- Prepared Deconstruction Service proposals and coordinated third-party donation appraisals for clients.
- Established and achieved organization's financial objectives by preparing project budgets, scheduling projects, approving expenditures, and initiating corrective action and change orders.
- Produced monthly financial analysis to assess project profitability.
- Developed relationships and maintained open communication with contractors and clients via email and telephone.
- Issued material donation receipts to clients for tax purposes.
- Performed outreach to contractors, architects, and homeowners to offer Deconstruction Services.
- Managed pre-project logistics such as hazardous material testing and removal, permitting, and site set-up.
- Billed clients for deconstruction work and followed up with any delinquent accounts receivable.
- Upheld professional and ethical standards of the organization including compliance with federal and state regulations.

**Mar 2018 -
Oct 2019**

Re-use Hawaii

Bookkeeper & Administrative Coordinator

- Managed and deposited all incoming revenue and accounts receivable including cash deposits, weekly credit card deposits, and deconstruction payments.
- Generated invoices and billed deconstruction projects.
- Recorded all organizational expenses in Quickbooks Online - debit card purchases and petty cash purchases (PEX).
- Monitored and reviewed employee timesheets.
- Assisted Chief Financial Officer with payroll processing.
- Managed accounts payable including invoice entry, matching, verification, and check runs.
- Monitored and maintained all vendors and online accounts.
- Generated donation receipts for deconstruction clients.
- Provided administrative support to organization's departments.
- Provided IT and technical support to organization's departments.
- Managed supply and restocking of organization's consumables including but not limited to shirts, blades, PPE, office supplies, etc.
- Answered overflow phone calls from main phone line and phone calls regarding donations/pick-ups.
- Assist Warehouse Manager in overseeing the Receiving Department.
- Demonstrate and uphold company policies and procedures.

**Apr 2017 -
Mar 2018**

Re-use Hawaii

Lead Inventory Specialist

- Performed all duties required by Inventory Specialist.
- Exemplified leadership by performing best inventory practices.

- Collaborated and assisted Administrative Coordinator with accuracy of donation receipts by ensuring proper documentation of all material.
- Trained and guided the Inventory Specialist and any other new employees about receiving policies and procedures.
- Assessed and managed the quality of incoming materials.
- Managed all disposal bins.
- Answered donation inquiry calls and overflow phone calls from the main warehouse line.
- Managed donation emails.
- Assisted in developing processes to streamline inventory processes.
- Maintained a clean and safe Receiving department.
- Maintained close communication with department managers and team leaders.

Feb 2017 - Re-use Hawaii

Apr 2017 Inventory Specialist

- Maintained an organized material inventory data system.
- Researched, priced, and documented all materials that came through the department.
- Managed walk-in donations and provided necessary documentation.
- Informed warehouse staff of inventory procedures and donation acceptance policies.
- Provided customer service assistance to warehouse staff when needed.
- Maintained a clean and safe work area.
- Assisted warehouse manager with special projects.

Dec 2016 - Re-use Hawaii

Feb 2017 Customer Service Representative

- Performed sales transactions on POS.
- Assisted customers with purchases, questions, and measurements of material.
- Assisted receiving department with pricing and displaying of material.
- Managed and organized material in the warehouse and lumberyard.
- Maintained a clean and safe warehouse for both customers and co-workers.
- Answered main telephone and assisted/directed calls.

June 2015 - University of Hawaii at Manoa - Student Media Board

Dec 2016 Receptionist/Fiscal Assistant

- Welcomed clients and visitors by greeting them, in person or on the telephone.
- Directed clients and visitors to proper employee departments.
- Maintained and monitored equipment logs.
- Processed cash and credit card transactions.
- Generated analytic reports of newspaper circulation using Microsoft Excel and Word.
- Handled various fiscal tasks including payroll processing, accounts payable, and data entry.
- Assisted co-workers and supervisors with any tasks they may have.
- Maintained and organized important business documents and files.

June 2014 - Pooch Parlor

Aug 2014 Assistant Dog Groomer

- Assisted professional groomers in tasks related to dog grooming, such as bathing, drying, nail cutting and polishing, brushing, dental work, etc.

- Provided assistance to customers when co-workers were unable to do so.
- Processed payment transactions and wrote receipts for customers.
- Scheduled appointments for customers.
- Utilized calming techniques in order to manage dogs effectively.
- Inspected dogs for discomforts or diseases.
- Managed a grooming table with equipment and supplies pertinent to grooming dogs
- Maintained a clean and healthy grooming environment for dogs and co-workers.

SKILLS

Adaptable

Willing to learn

Forklift trained and certified

Human resources & employee wellness

Policy and procedure modification

Payroll and budgeting

Schedule management

Bookkeeping

SOFTWARE

Quickbooks Online

Quickbooks Online Payroll

Google Workspace

MacOS

Microsoft Office

Lightspeed Retail (point-of-sale)

Professional references are available upon request.

A. Quinn Vittum

3771a Lurline Drive
Honolulu, HI 96816

Desk 808.539.8902
Mobile 808.285.0269

quinn@reusehawaii.org

Objective and Passion My objective is to continue offering my skills, knowledge, and attention to further the health and sustainability of our community and to remain a responsible citizen of the changing planet.

My passion within the building material reuse industry stems from my direct experience in the construction trades, my striving for economic solutions for environmental wellbeing, and the scale of the demand for waste stream diversion systems.

Experience

Founder and Executive Director, Re-use Hawai'i; Honolulu, HI - 2006 - Present

Responsible for the organizations start up activities; including business planing, marketing, fundraising, board development, strategic planning and program development. Core focus has been to implement and cultivate a deconstruction industry in Hawaii. The organization now has 50 people and a 4 million dollar annual budget. Successful project execution include launching the Re-use Hawai'i Redistribution Center, a 40,000 square foot retail facility in Kaka'ako. Deconstruction project include four Kawamoto mansions in Kahala, 9 large buildings at Punahou schools, an average of 40 residential whole house projects per year and most recently, Kona Village Resort, 135 structure project on Hawaii Island.

Board member, HEMIC Insurance; Honolulu, HI - 2016 - Present

Board governance for the 20-year-old local mutual insurance company. Member of the Organizational Effectiveness and Audit Committees.

Founder and Co-Director, Olympia Salvage; Olympia, WA - 2004 - 2006

Lead the start up of the small waste reduction organization whose focus was to deconstruct World War II era buildings at Fort Lewis, WA and redistribute the salvaged material as an affordable community resource.

Manager, Habitat for Humanity's Sound Builder's Resource; Olympia, WA - 2002 - 2004

Set up retail facility "Restore" for Habitat for Humanity and started a deconstruction program in order to reduce waste in the community and provide funding for affordable housing projects. Managed an EPA-funded landfill collection site designed to divert waste, generate resources and cultivate sustainable behavior of area residents.

Supervisor and Retail Shop Staff Member; Seattle, WA - 2001 - 2002

Lead salvage crews in the Seattle and Puget Sound areas of WA. Duties included overseeing safety, material hauling, customer service, material pricing, and merchandising.

Crew member, Vittum Contracting; Carrol Country, NH - 1995 - 2000 (part-time and summers)
Working along side my father building custom houses on Lake Winnepesaukee. Tasks included framing, roofing, site work, finish carpentry and painting.

Education

The Evergreen State College, Olympia, WA - 2002-2005
Course work in business planning, economics and the environment and grant writing.

Solar Energy International-Education Program, Summertown, TN - 2001
Photovoltaic installation and design.

Geocommons College/ University of New Hampshire, 1999
Study abroad in India with a focus on sustainability through community, spirituality and ecology.

State University of New York, New Paltz, NY - 1998
Focus on environmental studies, metal working and fine art. Founder of GAIA, the campus's first environmental club.

Skills

My core competencies center around organizational start ups and human resource development. I have refined my skill in organizational planning and learned how to help others develop their skills and knowledge to grow into leaders. I am a national leader in building deconstruction and material reuse. I am developing my skill in fundraising and have helped raised over \$600,000 for Re-use Hawaii's capacity expansion efforts.

I am a member of the VI Cohort of the Omidyar Fellows program, an extensive, Hawaii based leadership development program.

References

Available upon request

Nicole Keala Galase

PO Box 454, Volcano, Hawaii 96785 • nicolegalase@gmail.com • 808-209-0820

EDUCATION

Victoria University of Wellington
New Zealand

- Master of Marine Conservation

University of Hawai'i at Mānoa

- Bachelor of Business Administration in Management
- Marine Option Program Certificate in Hawaiian Monk Seal Research

American Business School in Paris
2009 Study Abroad

University of Massachusetts Amherst
2006 National Student Exchange

AWARDS & SCHOLARSHIPS

- Cattleman of the Year - 2022
- Pacific Business News 40 Under 40 - Class of 2021
- Hawai'i Audubon Society Service Award 2012
- Shidler Business Night Award-Outstanding Senior in Management, UH Mānoa 2009
- Gilman International Scholar, Paris, France 2008
- Oscar and Rosetta Fish Scholarship for Excellence, UH Mānoa 2007-2009

WORK EXPERIENCE

MANAGING DIRECTOR

April 2019 - Present

Hawai'i Cattlemen's Council 501(c)(6)

- Provide leadership and strategic administration to boards of organizations that support our local cattle industry. Ensure that ranchers are part of important community conversations, educate county, state, and federal decision makers, and provide resources and connections to help the cattle industry thrive as land stewards and food producers.
- Engage with all members of the cattle industry supply chain to ensure a sustainable industry to continue perpetuating the paniolo culture
- Member of the House subcommittee on Food and Ag Stream - 2020 to 2021
- Member of State Technical Advisory Committee for USDA NRCS and the CTAHR Advisory Council.
- Serving on Producer Engagement Team of the Hawaii Climate Smart Commodities project

Hawai'i Beef Industry Council 501(c)(5)

- Support for beef promotion and research. Access to national resources and councils.
- Host Beef Quality Assurance workshops throughout the state
- Engage in communication with the public

Hawai'i Rangeland Stewardship Foundation 501(c)(3)

- Perpetuate sound stewardship of Hawaii's rangelands through advocacy and education.
- Develop partnerships to improve practices
- Support research to understand the benefits of well-managed rangelands
- Participating in the 2024 Hawaii Investment Ready Food Systems Accelerator

SEABIRD PROJECT LEADER - RESEARCHER

Center for Environmental Management of Military Lands

Nov 2014 - Mar 2019

- Designed and implemented project to discover the first active Band-rumped Storm Petrel colony in Hawaii, used variety of techniques to locate and observe including song meters, night vision, and detector dog searches. Adept at using ArcGIS to create maps for analysis and presentation and working with stakeholders with various objectives.

NONPROFIT BOARDS

South Oahu County Farmers Association

Nov 2020 - Present

- Assist in following legislation important to farmers and ranchers. Organize monthly meetings and keep board on track. Currently serving as President.

Oahu Resource Conservation & Development

Jan 2022 - Present

- Oversees management of the organization that provides resources to farmers. Currently serving as Vice President

Friends of Hawaiian Island National Wildlife Refuge

Oct 2012 - Dec 2023

- Founding member of non-profit organization to connect the public with the natural and cultural resources of the Hawaiian Islands National Wildlife Refuge through environmental education and advocacy. Developed board protocols, established policies, led strategic plan development and implementation. Served as board member, Treasurer, and Chair.

SKILLS AND CERTIFICATIONS

- CPR and First Aid Certified
- PADI Scuba certified
- Hunting license (bow hunter)
- Helicopter A-100 Basic Aviation Safety and A-219 & Transport of External Cargo certification
- Motorboat Operator Certification & NOAA Small Boat Training
- Occupancy Modeling using R program, National Conservation Training Center

PUBLICATIONS

- GALASE, N.K. 2019. First confirmed Band-rumped Storm Petrel *Oceanodroma castro* colony in the Hawaiian Islands. *Marine Ornithology* 47: 25-28.
- Antaky, C. C., Galase, N. K., & Price, M. R. (2019). Nesting ecology in the Hawaiian population of an endangered seabird, the Band-rumped Storm-Petrel (*Oceanodroma castro*). *The Wilson Journal of Ornithology*, 131(2), 402–406.

EDUCATION

University of Hawai‘i – Mānoa, O‘ahu

Class of 2018

PhD. Political Science – Concentration: Indigenous Politics

Dissertation: Kokolo mai ka mole uaua o ‘Ī: The Resilience and Resurgence of Aloha ‘Āina in Hāmākua Hikina, Hawai‘i. (“*Pass with Distinction*”)

Class of 2013

M.A. Hawaiian Studies – Concentrations: Mālama ‘Āina (Land Stewardship, Hawaiian Geography) & Mo‘olelo ‘Ōiwi (Hawaiian Intellectual Traditions)

Cumulative GPA: 4.0

Stanford University – Stanford, CA

Class of 2010

B.A. Honors: Anthropology – Concentration: Land and Resource Stewardship in Indigenous Communities, Minor: Native American Studies

Cumulative GPA: 3.8

Kamehameha Schools, Hawai‘i Campus – Kea‘au, Puna, Hawai‘i

Class of 2006, Salutatorian

Hālau ‘Ōhi‘a – Hawai‘i Island (2018-2021)

Papa Ha‘ako‘a – Completed 3 Years Training - Hālau ‘Ōhi‘a Hawai‘i Stewardship Training is a unique personal and professional development program, developed and taught by Kekuhi Keali‘ikanaka‘oleohaililani, for stewards of the Hawai‘i landscape. Based on the idea that we are kin with our environment, Hālau ‘Ōhi‘a focuses on establishing and deepening familial relationships to the world around us by enhancing the ways we engage with our ‘āina (landscape) community and kānaka (human) community through the learning and practicing of Hawai‘i lifeways.

Employment & Leadership

Hui Mālama i ke Ala ‘Ūlili (January 2016 - Present)

- **Executive Director:** Hui Mālama i ke Ala ‘Ūlili (huiMAU) is a 501(c)(3) non-profit organization in Hāmākua Hikina (East Hāmākua), founded in 2011, whose mission is *to re-establish the systems that sustain our community through educational initiatives and land-based practices that cultivate abundance, regenerate responsibilities, and promote collective health and well-being.*

Huliauapa‘a: Wahi Kupuna Internship Program, Hāmākua (June - October 2015)

- **Program Leader:** Organized and led cultural resource management summer internship and training program. Trained five upper-level undergraduate students from Univ. of Hawai‘i in ethno-historical, ethnographic, and archeological research methods. Mentored students in developing original ethno-historical research projects in the ‘Umi-a-Līloa Birthplace Corridor in collaboration with community partner, Hui Mālama i ke Ala ‘Ūlili.

Nohopapa Hawai‘i, LLC. Cultural Resource Management (March 2014 – Dec. 2015)

- **Researcher:** Working part-time as a researcher on ethno-historical studies and cultural site restoration plans. Research primarily focuses on archival materials and primary Hawaiian language resources.

Political Science Dept., University of Hawai‘i at Mānoa (Aug. 2013 – July 2015)

- **Graduate Research Assistant (Aug. 2014 – July 2015):** Assisted professors and graduate students in the Indigenous Studies Program with graduate student programming and administrative assistant duties.
- **Graduate Teaching Apprentice (Aug. 2013 – May 2014):** Assisted Prof. Noelani Goodyear Ka‘ōpua in leading Political Science 301: Hawai‘i Politics, and Political Science 302: Native Hawaiian Politics, both upper level undergraduate courses on historical and contemporary politics in Hawai‘i and Native Hawaiian political struggles.

Kamakakūokalani Ctr. for Hawaiian Studies, University of Hawai‘i at Mānoa (Jan. 2011 – July 2013)

- **Graduate Research Assistant:** Kamakakūoka‘āina Ancestral Visions of ‘Āina (AVA Konohiki) Project – Assisted in reclamation and perpetuation of ancestral knowledge about ‘āina and mālama ‘āina through transcription and analysis of Māhele land documents, and intensive leadership and land stewardship training in the knowledge, protocols and practices of konohiki. Also, assisted in creation of AVA Konohiki website and database (avakonohiki.org). Project led by Prof. Lilikalā Kame‘eleihiwa and the Edith Kanaka‘ole Foundation.

Kamehameha Schools Bishop Estate, Land Assets Division (June 2009 – Jan. 2010)

- **Cultural Assets Management Intern:** Developed and conducted community-based research project, “Ma Ke A‘elo: A Cultural & Natural History of Kūka‘iau & Koholālele on the Island of Hawai‘i,” utilizing field, archival, and ethnographic research methods, as well as GIS, to develop a community-based natural and cultural resource stewardship plan. Collaborated with community members and land owners to help begin community-based and culturally-appropriate conservation and restoration efforts in the area.

List of Honors, Awards, Fellowships

- Finalist, Hawai‘i Business Magazine “20 for the Next 20 – Hawai‘i’s People to Watch”
- Finalist, Social Impact Entrepreneur of the Year, 2023, Hawai‘i Venture Capitalist Association
- County of Hawai‘i Mayor’s Sustainability Award, 2022 (on behalf of huiMAU)
- Ho‘okele Award 2022, Presented by Nā Kama Kai (with Haley Kailiehu)
- Hawai‘i Investment Ready Social Enterprise Food Systems Accelerator Cohort 2022
- “50 for 50” Stanford University American Indian Organization 50th Anniversary Featured Native Alumnus (February 2021)
- Kamehameha School’s Strategy and Innovation ‘Āina Engagement Fellowship (2017-19)
- The Kohala Center’s Mellon-Hawai‘i Doctoral Fellowship (2016-17)
- Ford Foundation Dissertation Fellow (2016-2017, *declined for Mellon-Hawai‘i*)
- Consuelo Foundation & Islander Institute Social Entrepreneurship Cohort (2015-16)
- Ford Foundation Pre-Doctoral Fellow (2013-2016)
- Kamehameha Schools ‘Imi Na‘auao Merit-Based Scholarship (2013-2015)
- June Jones Foundation George T. Kanalu Young Memorial Scholarship Award (Spring 2013)
- Christopher B. Duro Indigenous Graduate Student Fellow, Southern California Tribal Education Institute (2010, 2011, 2012)
- Stanford University Firestone Medal for Excellence in Undergraduate Research: Honors Thesis - “Hao Kō‘ala Ka ‘Ino a Ke A‘eloā: (Re)membering Ahupua‘a-Based Mālama ‘Āina in Kūka‘iau & Koholālele on the Island of Hawai‘i.” (2010)
- Stanford University Center for Comparative Studies in Race & Ethnicity’s Community Research Summer Undergraduate Research Grant (2009-2010)
- Stanford University Office of Undergraduate Advising & Research, Chappell Lougee Scholarship / Undergraduate Research Grant (2008-2009)

- Stanford University Native American Cultural Center, John Oskison Undergraduate Student Writing Competition Award (2008, 2009)
- Prince Kuhio Hawaiian Civic Club Scholarship (2006 – 2010)
- Liko A‘e Native Hawaiian Scholarship (2006 – 2010)

Select Presentations

- “Ka Maha ‘Ulu o Koholālele: Restoring Ancestral Groves for Abundant Futures.” HK West Maui Community Fund Scholar Series. Nā ‘Aikāne o Maui Cultural Center: Feb. 13, 2023.
- “E waele i nā ala: Clearing Pathways for Maui Ola.” Hā‘ena Co-Keynote with Dr. Marcus Iwane. World Oli Movement Conference, Hilo, Hawai‘i: October 22, 2022.
- “Aloha ‘Āina: Indigenous relationships for birthing abundant futures.” Spotlight Seminar. World Indigenous Forum 2021. Virtual Conference: Jan. 14, 2021.
- “Kīpuka Aloha ‘Āina: Piko of ‘Ōiwi Resurgence.” Two-Part Panel Presentation. Native American & Indigenous Studies Association (NAISA) Conference. University of Waikato, Hamilton, NZ: June 27, 2019.
- “huiMAU and the Everyday Acts of Aloha ‘Āina.” 8th International Conference on Education and Social Justice.” Honolulu, Hawai‘i: Oct. 5, 2018.
- Koholālele Experiential Huaka‘i. Kamehameha Schools Hawai‘i Campus ‘Ōiwi Edge Summit 2018. Aug. 31, 2018.
- “Our Mo‘olelo of Change: Storytelling and Kīpuka of Resurgence in Hāmākua, Hawai‘i.” He Manawa Whenua Indigenous Research Conference. University of Waikato, Hamilton, NZ: March 7, 2017.
- “He Mo‘olelo no ‘Umi, He Mo‘olelo no Kākou.” Keynote Address, Kamehameha Schools Hawai‘i Campus, High School Career Day. Kea‘au, Hawai‘i: Oct. 28, 2016.
- “He Mo‘olelo no ‘Umi, He Mo‘olelo no Kākou.” Keynote Address, “Hō‘eu, Kukupu, ‘Īnana,” Native Hawaiian Student Leadership Conference. University of Hawai‘i at Hilo: April 24, 2016.
- “Ke Kuamo‘o ‘Ōiwi: Towards an Embodied ‘Ōiwi Research Methodology.” 6th Annual Native American & Indigenous Studies Association (NAISA) Conference. University of Texas, Austin: June 2014.

- “Reproducing the Ropes of Resistance through Kanaka Maoli Methodologies.” Department of Political Science, Local/Global Colloquium. University of Hawai‘i, Mānoa. Feb. 28, 2014.
- “I Kama‘āina nō Mākou i ke Kuamo‘o: Restoring the Pathways that Define Us.” Conference of Ford Fellows: Critical Transformations and Intersections: Knowledge, Community, and Action.” National Academies, Washington, D.C.: Sept. 27-28, 2013.
- “I Kama‘āina nō Mākou i ke Kuamo‘o: Restoring the Pathways that Define Us.” 5th Annual Native American & Indigenous Studies Association (NAISA) Conference. University of Saskatchewan, Saskatoon, Saskatchewan, Canada: June 2013.
- “I Kama‘āina nō Mākou i ke Kuamo‘o: Restoring the Pathways that Define Us.” University of Victoria, Indigenous Governance Program, Indigenous Speakers Series. Victoria, British Columbia: Mar. 2013.
- “Hāmākua i ke Ala ‘Ūlili: Re-membering ‘Ike, Restoring Kuamo‘o, Reestablishing Kuleana.” 4th Annual Native American & Indigenous Studies Association (NAISA) Conference. Mohegan Sun, Montville, CT: June 2012.
- “‘O Koholālele: He ‘Āina, He Kanaka, He I‘a Nui o ka Moana Lipolipo. Re-membering Knowledge of Place in Koholālele, Hāmākua, Hawai‘i.” Indigenous Spaces: Pushing the Boundaries of History, Bodies, Geographies, and Politics. Graduate Student Colloquium. Columbia University. New York, NY: Feb. 2012.
- “Hao Kō‘ala Ka ‘Ino a Ke A‘elo: (Re)membering Ahupua‘a-Based Mālama ‘Āina in Kūka‘iau & Koholālele on the Island of Hawai‘i.” 3rd Annual Native American & Indigenous Studies Association (NAISA) Conference. Sacramento, CA: June 2011.
- “‘O Ko a Uka, ‘O Ko a Kai: (Re)membering Ahupua‘a-Based Land and Resource Stewardship in Kūka‘iau & Koholālele on the Island of Hawai‘i.” Earth Rights: Learning the Languages of Indigenous Environmentalism Conference. Montana State University, Bozeman, MT: April 2010.

Publications

- Peralto, Leon No‘eau. “Hāmākua 2120: A Mo‘olelo of Abundance From a Future” in *Value of Hawai‘i 3: Hulihiā*. Edited by Noelani Goodyear-Ka‘ōpua, Craig Howes, Jonathan Osorio, Aiko Yamashiro, University of Hawai‘i Press, 2021.
- Kailiehu, Haley, No‘eau Peralto, Bryan Kuwada, No‘u Revilla. “Create Abundance Right Here: Interview with Haley Kailiehu and No‘eau Peralto.” in *Biography*, Vol. 43, No. 3, 2020, *We Are Maunakea: Aloha ‘Āina Narratives of Protest, Protection, and Place*. Edited by Bryan Kuwada and No‘u Revilla, University of Hawai‘i Press, 2020.

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- Peralto, No‘eau. “He Mo‘olelo no Pa‘auilo: ReStor(y)ing ‘Āina in a Quiet, Old Plantation Town in Hāmākua.” in *Detours: A Decolonial Tour Guide to Hawai‘i*. Edited by Hōkūlani Aikau and Vernadette Gonzalez, Duke University Press, 2019.
 - Peralto, Leon No‘eau. “Kokolo mai ka mole uaua o ‘Ī: The Resilience and Resurgence of Aloha ‘Āina in Hāmākua Hikina, Hawai‘i.” Dissertation. Dept. of Political Science, University of Hawai‘i at Mānoa, 2018.
 - Keliikaapuni, Simeon. “He Mo‘olelo no ‘Umi: Kekahi Ali‘i Kaulana o ko Hawai‘i Nei Pae ‘Āina.” (‘Ōlelo Hawai‘i & English) Editor & Translator, Leon No‘eau Peralto. *Hāmākua Times* & huiMAU’s [Mo‘olelo no ‘Umi Blog](#). Oct. 2014 – 2017.
 - Peralto, No‘eau. “Mālama ‘Āina Koholālele: Recalling the Roots of our Resurgence.” *Everyday Acts of Resurgence. IC Magazine*, Center for World Indigenous Studies. 2018.
 - Peralto, No‘eau. “Queen Emma and Sacred Maunakea.” *E ‘Ōpū Ali‘i*. The ‘Iolani Guild: Summer 2015
 - Peralto, Leon No‘eau. ““A‘ole mea ‘oi aku o ka waiwai e like me ke kanaka i noho kū‘oko‘a no ke aloha i kona ‘āina. (There is nothing of greater value than Kanaka living independently for the aloha of their ‘āina.)” (‘Ōlelo Hawai‘i & English) *Mana Magazine*. November 2014.
 - Peralto, Leon No‘eau. “Hānau ka Mauna, the Piko of Our Ea.” In *A Nation Rising: Hawaiian Movements for Life, Land and Sovereignty*. Edited by Noelani Goodyear-Ka‘ōpua, Ikaika Hussey, and Kahunawaika‘ala Wright. Duke University Press, 2014.
 - Peralto, Leon No‘eau. “A Koholālele Pau ka ‘Ino a ka Makani, Hao Kō‘ala ka ‘Ino a ke A‘eloā: Re-memembering Place & ‘Ike Kupuna in Koholālele, Hāmākua, Hawai‘i,” In *I Ulu i ka ‘Āina: Hawai‘inuiākea School of Hawaiian Knowledge Monograph Series, Vol. 2*, edited by Jonathan K. Osorio. University of Hawai‘i Press, 2013.
 - Hui Mālama i ke Ala ‘Ūlili (huiMAU) Official Website. [alaulili.weebly.com](#). November 2012.
 - Ancestral Visions of ‘Āina (AVA Konohiki) Official Website. [avakonohiki.org](#). Ancestral Visions of ‘Āina Website Team (J. Estrella, K. Long, I. Mahoe, L. N. Peralto). August 2012.

Journal Peer Reviewer

- *Hūlili: Multidisciplinary Research on Hawaiian Well-Being*, 2015.

Community Service

Hui Mālama i ke Ala ‘Ūlili (2011 – 2016)

- **Founding Member, Board of Directors, President:** Hui Mālama i ke Ala ‘Ūlili (huiMAU) is a 501(c)(3) non-profit organization in Hāmākua Hikina (East Hāmākua), founded in 2011, whose mission is *to re-establish the systems that sustain our community through educational initiatives and land-based practices that cultivate abundance, regenerate responsibilities, and promote collective health and well-being.*

‘Aha Kāne (2019 – 2020)

- **Ho‘okahua Project, Mentor:** The Ho‘okahua Project is a 12-month initiative that uses Hawaiian thought processes to address the physical, economic, and social well-being of Hawaiian men. Servicing communities on Hawai‘i Island, the target kāne are ages 20-35. This project aims to form a cohort of cultural practitioners, such as yourself, with a kāne in your community, which will allow the kāne one-on-one engagement in your specific cultural expertise.

Kanaeokana, Kealaiwikuamo‘o, Kamehameha Schools (2018 – 2021)

- **Aloha ‘Āina Impact Indicators Working Group, Member:** The vision of Kanaeokana is to nurture and sustain the next generations of aloha ‘āina leaders via its mission of developing and strengthening a network or Hawaiian educational system of cohesive kula Hawai‘i and related hui dedicated in such lāhui work. Toward that end, within Kanaeokana, the **Aloha ‘Āina Impact Indicators Working Group** has been engaged in conversations about what it means to be an Aloha ‘Āina Leader. These conversations have informed beginning steps to identify Aloha ‘Āina Impact Indicators to address the question: How will we know that we are on track to creating Aloha ‘Āina Leaders?
- **Kōmike Hālau ‘Ōiwi, Member:** The Kōmike Hālau ‘Ōiwi supports and helps to build the capacity of various community partners engaging in aloha ‘āina- and Hawaiian culture-centered educational programming, outside of the formal school setting, throughout Hawai‘i.

Kū-a-Kanaka, EA Ecoversity (2020 – Present)

- **Board of Directors; Aloha ‘Āina Advisory Board, Member:** EA Ecoversity is a Hawaiian higher education and career training program that provides blended online & offline learning in an atmosphere of aloha. This FREE post-secondary opportunity offers hands-on experiences, paid internships and personalized learning and career exploration.

Brown University, Department of American Studies (2021-Present)

- **Decolonization in Guåhan and Hawai‘i Project Advisory Board:** With project co-leads Dr. Kevin Escudero and Makana Kushi, this collective of educators, organizers, and community leaders guides the creation of helpful resources for teaching about decolonization in Guåhan (Guam) and Hawai‘i, connecting people engaged in this work, and highlighting community-based efforts.

SUSAN E. CROW

Curriculum Vitae – January 2024

Department of Natural Resources and Environmental Management
College of Tropical Agriculture and Human Resources
University of Hawai‘i Mānoa
1910 East-West Rd., Honolulu, HI 96822

E-mail: crows@hawaii.edu, Office phone: 1-808-956-8149, www.soilandcarbon.com, @soilandcarbon

TECHNICAL EXPERTISE

Soil Ecology and Biogeochemistry: carbon dynamics and sequestration, greenhouse gas flux, soil health in natural and managed (forested or agriculture) ecosystems and how these relate to global change pressures - such as land-use, climate change, and invasive species - sustainable agriculture, and climate readiness policy.

EDUCATION

1999	B.S. , Biology, College of William and Mary, Williamsburg, VA.
2001	M.S. , Biology, Villanova University, Villanova, PA.
2006	Ph.D. , emphasis in Ecology, Department of Botany and Plant Pathology, Oregon State University, Corvallis, OR.

PROFESSIONAL APPOINTMENTS

2023-present	Professor , Department of Natural Resources and Environmental Management, University of Hawai‘i Mānoa
2021-present	Graduate Chair , Department of Natural Resources and Environmental Management, University of Hawai‘i Mānoa
2009-present	Graduate Faculty , Department of Natural Resources and Environmental Management, University of Hawai‘i Mānoa
2018-2023	Associate Professor , Department of Natural Resources and Environmental Management, University of Hawai‘i Mānoa
2011-2019	Affiliate Researcher , Water Resources Research Center, University of Hawai‘i Mānoa
2012-2018	Assistant Professor , Department of Natural Resources and Environmental Management, University of Hawai‘i Mānoa
2009-2012	Assistant Researcher , Department of Natural Resources and Environmental Management, University of Hawai‘i Mānoa
2007-2009	Research Fellow , ¹⁴ CHRONO Centre for Climate, the Environment, and Chronology, Queen’s University Belfast
2006-2007	Postdoctoral Researcher , Department of Earth and Atmospheric Sciences, Purdue University

GRANTS AND CONTRACTS

External, competitive, pending

External, competitive, funded

USDA-National Institute of Food and Agriculture

2023-2028

DSFAS: Soil Health Fingerprinting: Rapidly Predicting Soil Health in a Diversity of Soils Using Machine Learning (co-Project Director) \$649,570.

- USDA-Natural Resources Conservation Service** **2023-2028**
Hawai'i climate smart commodities: A portfolio approach to equitably scaling the agriculture sector (Principal Investigator with Lynker Corp. as Project Manager); \$40 million total award; \$10,647,990 to UH Mānoa.
- National Science Foundation, Idaho State University** **2021-2026**
Mid-scale RI-1 (M1:IP): A Deep Soil Ecotron facility to explore belowground communities and ecosystem processes (co-Principal Investigator). \$18,950,955 total award; \$391,386 to UH Mānoa.
- USDA-National Institute of Food and Agriculture** **2021-2024**
An emergent soil health framework for agroecosystems in underrepresented tropical/subtropical islands or regions (Project Director). \$499,323.
- USDA-Natural Resources Conservation Service** **2021-2024**
Producer-driven implementation of soil health management systems adapted to diverse cropping systems in tropical and subtropical island regions (co-Principal Investigator). \$1,983,479.
- US Climate Alliance** **2020-2022**
On the Path to Carbon Neutrality: A Hawai'i Carbon Land Use Opportunity Assessment (Principal Investigator). American Forests \$81,004; Cash cost shares: Hawai'i State Energy Office \$7,500; Hawai'i State Department of Land and Natural Resources \$10,000. \$98,5004 total.
- Western SARE, Montana State University** **2019-2022**
A Hawai'i soil health index to guide farmer adoption of sustainable management practices (Principal Investigator, student award to Ms. Elaine Vizka). \$23,036.
- USDA- National Institute of Food and Agriculture** **2018-2023**
Putting the farmer in the driver's seat: integrative web tool for soil health and carbon assessment, monitoring, and planning (Project Director). \$449,958.
- USDA-National Institute of Food and Agriculture** **2018-2019**
Soil organic matter data synthesis and visualization working group (co-Project Director). \$40,620.
- Department of Defense - Office of Naval Research** **2016-2017**
Finalization of soil carbon sequestration measurement and model validation in the development of perennial grass feedstocks for biofuel in Hawai'i (Principal Investigator). \$121,816.
- USDA-Agricultural Research Service** **2013-2016**
Parameterization of two simulation models (ALMANAC and SWAT) in Hawai'i with subsequent parallelization of the SWAT model (Principal Investigator). \$1,201,728.
- USDA-Natural Resources Conservation Service** **2012-2015**
Rapid assessment of soil carbon project assistance for the Hawaiian Islands (Principal Investigator). \$75,000.
- USDA-National Institute of Food and Agriculture** **2012-2017**
Practical benefits of biochar amendment to agricultural systems: Linking soil and microbial processes to economic feasibility and sustainability (Project Director). \$480,000.
- USDA-Agricultural Research Service** **2011-2016**
Water and carbon footprint and plant parameters of biofuel production on the HC&S sugarcane lands on Maui, Hawai'i (Principal Investigator). \$543,000.
- External, non-competitive
- USDA-NRCS** **2023-2027**
Investigating Short Range Order Material as a DSP and Its Capacity to Stabilize SOC, SRO/SOC Dynamics in a Warming Ecosystem (co-Principal Investigator). \$499,553
- USDA-NRCS** **2020-2023**
Science of Hawai'i soil health - dynamic soil properties for soil health assessment (Principal Investigator). \$140,499.
- Office of Hawaiian Affairs** **2019-2022**
Memorandum of Understanding between the Office of Hawaiian Affairs and University of Hawai'i (co-Principal Investigator). \$185,000.

Hawai'i State Department of Health, Clean Water Branch	2019-2022
Implementing Soil Management Strategies and Soil Testing Technologies (co-Principal Investigator). \$349,922.	
State Office of Planning (Key Personnel)	2019-2021
Soil Carbon Inventory and Working Lands Baseline (Key Personnel). \$60,000.	
<u>Internal, competitive</u>	
USDA McIntire-Stennis	2023-2028
A holistic assessment of soil health and biodiversity in subtropical and tropical island (agro)forestry systems (Principal Investigator). \$135,000	
USDA-National Institute of Food and Agriculture Hatch	2020-2021
Team Science. Land-based solutions: Activating landscapes for climate change mitigation and soil health (Principal Investigator). \$79,900	
USDA McIntire-Stennis	2020-2025
Long-term Microbial Transformation of Recalcitrant Nutrients in Experimentally Warmed Tropical Forest Soils (co-Principal Investigator). \$125,000	
USDA McIntire-Stennis	2016-2021
Interactive feedbacks of climate, mineralogy and afforestation on soil carbon: A tropical deep soil warming experiment (Principal Investigator). \$125,000.	
USDA-National Institute of Food and Agriculture Hatch	2016-2018
Measurable soil quality (Principal Investigator). \$80,000.	
USGS Powell Center for Analysis and Synthesis	2015-2017
What lies below? Improving quantification and prediction of soil carbon storage, stability, and susceptibility to disturbance (co-Principal Investigator), \$146,140.	
USDA-National Institute of Food and Agriculture Hatch	2013-2015
Carbon cycling and storage in Hawaiian Ecosystems: Tropical forest soil carbon formation and decomposition with rising mean annual temperature (co-Principal Investigator). \$49,730.	
USDA-National Institute of Food and Agriculture Hatch	2013-2015
Can microbial-derived nitrogen be used as a fertilizer for organic farming? (co-Principal Investigator). \$50,000.	
CTAHR Research Instrumentation	2012-2013
Improving efficiency and depth of analytical capacity for process-level carbon and nutrient cycle research for environmental management and sustainability (Principal Investigator). \$221,000.	
CTAHR Catalyst Funds	2011-2013
Sustainable food production: Response of root crops and soil carbon resources to the atmospheric $p\text{CO}_2$ estimates of the next 300 years (co-Principal Investigator). \$160,000.	
NSF Industry/University Cooperative Research Center	2009-2013
Inclusion of carbon and greenhouse gas tradeoffs on life cycle analysis of biomass production systems, Center for BioEnergy Research and Development (CBERD) (Principal Investigator) \$178,198.	
USDA-National Institute of Food and Agriculture Hatch	2009-2012
Impact of temperature on soil carbon sequestration and quality in native tropical forest and managed pasture (co-Principal Investigator). \$80,000.	
<u>Collaborative grants</u> (non-PI status, but with dedicated budget)	
Office of Naval Research	2017-2018
Asia Pacific Research Initiative for Sustainable Energy Systems. Principal Investigator R. Rocheleau, \$8,573,577 (total award); \$131,488 (Crow).	
USDA NIFA Biomass Research and Development Initiative	2012-2017

Conversion of high-yield tropical feedstocks and biomass conversion technology for renewable energy production and development. Principal Investigator A. Hashimoto, \$6,000,000 (total award); \$248,997 (Crow).

SANREM/USAID CRSP **2010-2015**

Sustainable management of agroecological resources for tribal societies (SMARTS). Principal Investigator C. Chan-Halbrendt \$1,380,000; Crow, Collaborative Researcher.

US Department of Energy **2009-2012**

Development of high yield tropical feedstocks and biomass conversion technology for renewable energy production and economic development. Principal Investigator A. Hashimoto \$7,919,250 (total award); \$464,000 (Crow).

National Science Foundation **2008-2011**

Collaborative Research: Investigating the soil-earthworm-litter system controls on the stabilization of soil organic matter in eastern deciduous forests. Principal Investigator T. Filley \$408,467 (total award); \$12,000 (Crow).

PROFESSIONAL WORKING GROUPS, LEADERSHIP

North American Carbon Program (NACP) **(2019-present)**

Carbon Cycle Science Interagency Working Group (CCIWG) – NACP Science Leadership Group (SLG) (Member). Nominated by current members of the CCIWG to join the NACP SLG, which provides scientific leadership for the NACP, interacts closely with the CCIWG and NACP office to assist in implementing the NACP Science Plan.

Hawai'i State Planning Office **(2017-2022)**

Greenhouse Gas Sequestration Task Force (Member) – Established by Act 15, SHL 2018, the Task Force is comprised of 15 members from State agencies, nonprofit sector, private associations, and a researcher and an extension agent from CTAHR. The broad purpose is to expand and make permanent the Carbon Farming Task Force, align the energy and sequestration efforts with climate initiatives, and make recommendations to achieve carbon neutrality by 2045. August 2018-2022.

Carbon Farming Task Force (Member) – Established by Act 33, SHL 2017, the Task Force is comprised of 15 members from State agencies, nonprofit sector, private associations, and a researcher and an extension agent from CTAHR. The broad purpose is to identify Hawai'i agricultural, aquacultural, and agroforestry activities and best practices that provide carbon sequestration benefits, which may be used to establish a carbon farming certification. August 2017-July 2018.

City & County of Honolulu Office of Climate Change, Sustainability & Resilience **(2018-2021)**

Island Exposure & Innovation, Climate Change Mitigation Working Group (member) – As a participating city in the international 100 Resilient Cities initiative, the City & County of Honolulu is conducting multiple phases of resilience strategy planning, including tackling climate change by reducing emissions. Fall 2018-present.

Office of Hawaiian Affairs (OHA) **(2017-2018)**

Kūkaniloko Master Planning Working Group (Member) – OHA acquisition and development of agricultural land associated with the Kūkaniloko cultural site requires a master plan. The working group is comprised of members with expertise in cultural and natural resource management, agriculture, archaeology, business and marketing, education, Hawaiian culture, and other fields of study such as environmental and property law. The working group advised OHA in the creation of the master plan.

International Soil Carbon Network **(2016-2018)**

Action Team (co-Leader) – Large Scale Assessment of soil carbon storage, stability, and susceptibility to disturbance.

U.S. Geological Survey (USGS) Powell Center for Analysis and Synthesis (co-P.I.) **(2015-2018)**

What lies below? Improving quantification and prediction of soil carbon storage, stability, and susceptibility to disturbance.

LEADERSHIP TRAINING

Harvard Business School Online, 2023 Course Completed, Certificate in Power and Influence for Positive Impact. Power and Influence for Positive Impact is a 6-week, 40-hour online certificate program from Harvard Business School. Power and Influence for Positive Impact explores how power *really* works and teaches learners to develop their own power to gain influence and make an impact—within their professional relationships, organizations, and society at large. The program was developed by leading Harvard Business School faculty and is delivered in an active learning environment based on the HBS signature case-based learning model.

Harvard Business School Online, 2023 Course Completed, Certificate in Leadership Principles. Leadership Principles is a 6-week, 35-hour online certificate program from Harvard Business School Online. Leadership Principles is designed to help individuals thrive as leaders, unleash the capabilities of others, and cultivate high-performing teams. This course leverages self-assessments, 360° feedback from colleagues, and the perspectives of fellow learners to help participants build greater self-awareness and enhance the versatility of their leadership style and approach.

University of Hawai'i Leading with Excellence, 2022, 2023, conference attendee.

FELLOWSHIPS AND AWARDS

- Nominated for American Geophysical Union **Sulzman Award** (2019)
- Nominated for University of Hawai'i Board of Regents **Excellence in Teaching Award** (2016)
- Nominated for CTAHR **Excellence in Research Award** (2015-2016)
- Springer Science and Business Media “**Excellence in Reviewing**” for *Biogeochemistry* (2013)
- Springer Publishing **Award for Excellence (Oral presentation)**, American Geophysical Union Meeting, Session: Soil organic matter dynamics in the Anthropocene (2013)
- **NSF-CZEN International Scholars Fellowship** – Title: Decomposing Arctic Soils; Potential Effects of Warmer Climate on Soil Organic Matter Turnover and Chemistry in the Svalbard Archipelago Tundra, \$9,040 funded for travel and research (2007)
- Tropical Ecosystems **Research Fellowship** - Oregon State University (2004, 2005)
- **Honorable Mention**, Student Oral Presentation, BIOGEOMON 4th International Symposium on Ecosystem Behaviour, University of Reading, UK, (2002)
- **Travel Award** from the Botany and Plant Pathology Graduate Student Association, Oregon State University (2002, 2005)
- Academic Year **Research Fellowship** in Biology, Villanova University, (AY 2000-2001)
- Summer **Research Fellowship**, Villanova University (2000, 2001)

PEER-REVIEWED PUBLICATIONS

*graduate student, **undergraduate student, † equal first or senior authorship

Journal Articles

Satdichanh, M., G.G.O. Dossa, K. Yan, K.W. Tomlinson, K.E. Barton, S.E. Crow, L. Winowiecki T-G Vågen, J. Xu, R.D. Harrison. 2023. Drivers of soil organic carbon stock during tropical forest succession. *Journal of Ecology* 111: 1722-1734. <https://doi.org/10.1111/1365-2745.14141>

- McClellan Maaz, T., R.H. Heck, C.T. Glazer, M.K. Loo, J. Rivera Zayas, A.R. Krenz, T. B. Beckstrom*, **S.E. Crow**†, J.L. Deenik†. 2023. Measuring the unmeasurable: A structural equation modeling approach to assessing soil health. *Science of the Total Environment* 870: 161900. <https://doi.org/10.1016/j.scitotenv.2023.161900>
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Extended Abstracts

- Paudel, B. *, T. Radovich, C. Chan-Halbrendt, B.B. Tamang, **S.E. Crow**, J. Halbrendt*, K. Thapa. 2014. Effect of conservation agriculture on maize-based farming system in the mid-hills of Nepal. Humanitarian Technology: Science, Systems and Global Impact 2014, HumTech2014. Proceedia Engineering 78: 327-336.
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NON-PEER REVIEWED REPORTS

UN Report

- FAO, ITPS, GSBI, SCBD and EC. 2020. State of knowledge of soil biodiversity - Status, challenges and potentialities, Report 2020. Rome, FAO. (contributor) <https://doi.org/10.4060/cb1928en> (

State Report and Databases

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<https://doi.org/10.17605/OSF.IO/JPR7Q>

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Citation: Crow, S., Rivera-Zayas, J., & Vizka, E. (2021, July 19). Hawai‘i Soil Carbon database. <https://doi.org/10.17605/OSF.IO/HMTV6>

State Policy Brief

Hawai‘i Climate Change Mitigation and Adaptation Commission. 2021. Nature-based resilience and adaptation to climate change in Hawai‘i: A climate ready Hawai‘i working paper. (contributor) <https://climate.hawaii.gov/wp-content/uploads/2021/04/CRHI-Working-Paper-V5.pdf>

INVITED PROFESSIONAL CONTRIBUTIONS

Invited Panels and Conferences

- 2023 Invited oral presentation: “Overcoming barriers to implementation through a holistic framework for characterizing place-based suites of practices that achieve meaningful climate benefits. American Geophysical Union Meeting, San Francisco, CA December 2023
- 2023 Invited panelist: CTAHR Food Systems Panel – “Assisting Hawai‘i farmers with climate-smart practices” Honolulu, HI, April 2023
- 2022 Keynote Speaker: Hawai‘i Cattlemen’s Convention – “Ranching-based climate-smart practices and warming benefits. Waikaloa, HI, October 2022
- 2022 Guest appearance: Think Tech Hawai‘i - Carbon in soil, not in atmosphere (Code Green), Honolulu, HI, October 2022
- 2022 Invited Panelist: ISCN Webinar series Towards a Durable Understanding of Soil Carbon as a Tool for Climate Adaptation and Mitigation – Webinar 3: How does the impermanence of soil carbon storage affect Earth’s climate? April 2022
- 2021 Invited Panelist: Fall Meeting of the American Geophysical Union, New Orleans, LA – “Challenges and Opportunities of managing Soil Carbon as a Natural Climate Solution”
- 2021 Invited panelist: Illumination Hawai‘i - Summit on Energy & Climate, September 2021, Honolulu, Hawai‘i.
- 2021 Invited panelist: Oahu RC&D Women in Soils - Soil Health Testing as a Management Tool, June 2021
- 2019 Invited panelist and participant: Speaker in the Agriculture breakout session panel. US Climate Alliance Western Regional Learning Lab, November 20-21, 2019, Portland, Oregon.
- 2019 Invited panelist: Cultivation, carbon and collaboration: Adapting the carbon model for Hawai‘i’s farms and ranches, moderator Stephanie Mock. 2019 Hawai‘i Agriculture Conference, October 15-16, 2019, Honolulu, Hawai‘i.
- 2019 Invited speaker and participant: American Farmland Trust’s “Farming & Climate Change” at Tenuta di Spannocchia, A discussion with conservationists, scientists, and farmers, May 2019, Tuscany, Italy.
- 2019 Invited oral presentation: Timescales, a soil carbon conundrum, and actuating the benefits of accumulating carbon in landscapes. European Geophysical Union Meeting, Vienna, April 2019.
- 2018 Invited participant: The Nature Conservancy “Women on Climate” Summit – 10 women from each of five Pacific states convened to accelerate solutions for climate change, October 11-12, 2018 in Seattle, Washington.
- 2018 Invited participant: US Climate Alliance Learning Lab, intensive three-day workshop hosted by American Forests to take collaborative action to sequester carbon in forests and other land-based climate mitigation strategies. July 2018, Washington D.C.
- 2018 Invited participant in my role as Hawai‘i State Carbon Farming Task Force member in the Climate Action Reserve’s North American Carbon World 2018 conference in San Francisco, April 2018.

- 2018 Invited Panelist: Carbon Farming and Energy Crops at the Maui Energy Conference – Decarbonization: A Business Opportunity for Innovative Communities, Kahului, Maui, March 2018. Panelists discussed - Hawai‘i established a Carbon Farming Task force in 2017. What financial opportunities exist? What are the most promising energy crops for Hawai‘i?
- 2017 Invited Panelist: Think Globally, Act Locally Alternative Fuel initiatives, Carbon Sequestration and Biocrop Results in Hawai‘i at the Bioeconomy Hawai‘i Forum 2017, The Future of Biofuels, The State of Hawai‘i Capitol Auditorium, Honolulu, HI, January 2017. Presenters addressed issues of strategic value in reviewing the state-of-the-art advances in renewable energy and environment for Hawai‘i.
- 2016 Invited Speaker and Panelist: Biofuels Panel at APRISE 2016, Asia Pacific Resilience Innovation Summit & Expo, Joint Base Pearl Harbor-Hickam, HI, July 2016. A panel of academic, private sector, and military leadership to discuss ongoing efforts in the biofuels space, and discuss the opportunities and challenges specific to biofuels R&D, production, and integration.
- 2015 Invited Oral Presentation: Crow, S. E., *et al.* Soil organic matter stabilization/destabilization in DIRT. ASA, CSSA, and SSSA Annual Meeting, Minneapolis, MN, November 2015.

Off-Campus Seminars

- Actuating soil to mitigate climate change and improve health of productive landscapes in Hawai‘i. Center for Ecology and Hydrology, Natural Environmental Research Council, Edinburgh, Scotland, Visiting Scientist Seminar, June 2019.
- The low-carbon revolution: harnessing the nature and properties of soil to mitigate climate change and improve the health of managed ecosystems in Hawai‘i. University of Arizona, Soil Water and Environmental Science, Departmental Seminar Series, October 2017.
- Carbon balance and market feasibility in Hawai‘i. Lunch and learn for Monitoring Analytics (Eagleview, PA), the Independent Market Monitor for PJM Interconnection, which is responsible for monitoring compliance with the rules, standards, procedures and practices of energy markets, March 2017.
- Carbon cycle and the soil resource: from mechanism to management. University of New Hampshire, Department of Natural Resources & the Environment, Graduate seminar series in Soil Change, February, 2014.

On-Campus Seminars

- Opportunity for land-based climate action and rebuilding resilient, productive landscapes in Hawai‘i. University of Hawai‘i Mānoa, Institute for Sustainability and Resilience Seminar Series, November 2018.
- Interactive feedbacks of temperature, mineralogy, and microbes on soil carbon. Lyon Arboretum Centennial Symposium, East-West Center, September 2018.
- The low-carbon revolution: harnessing the nature and properties of soil to mitigate climate change and improve the health of managed ecosystems in Hawai‘i. NREM Departmental seminar series, October 2017.
- Biofuels and biomass in Hawai‘i: carbon balance and feasibility. Workshop on Energy and Environmental Research, Department of Economics, weekly workshop aims to facilitate interaction among graduate students and faculty across campus, February 2017.
- Biofuel production in Hawai‘i: Greenhouse gas flux, carbon budget, and achieving environmental and economic sustainability. University of Hawai‘i Mānoa, Molecular Biosciences and Bioengineering Department, Graduate Seminar Series: Bioenergy Topics, September 2013.
- Global change and soils: Invasive earthworms, arctic shrubs, and Acidobacteria. University of Hawai‘i Mānoa, Geology and Geophysics Departmental seminar series, October 2010.

Select Press, News, and Social Media

- ThinkTech Hawai‘i appearance video
<https://thinktechhawaii.com/carbon-in-soil-not-in-atmosphere-code-green/>
- Interview with Honolulu Civil Beat reporter Thomas Heaton and podcast: Hawai‘i Grown – Hawai‘i Needs Good Soil to Grow More Food. Here’s How That Can Happen:
<https://www.civilbeat.org/2022/02/hawaii-needs-good-soil-to-grow-more-food-heres-how-that-can-happen/>
- Interview for local news station KITV in response to the passage of legislation to form a Carbon Farming Task Force to help Hawai‘i meet Paris Climate Accord goals:
<http://www.kitv.com/story/35604780/hawaii-becomes-first-state-to-enact-law-in-alignment-with-paris-accord>
- Appearance on Hawai‘i Public Radio, The Conversation to discuss the future of biofuels and bioenergy in Hawai‘i: <http://hawaiipublicradio.org/post/conversation-monday-january-23rd-2017>
- Featured article by student science communication author published in the Biofuels Digest:
<http://www.biofuelsdigest.com/bdigest/2017/03/12/viable-biomass-for-hawaii/>

CONFERENCE PRESENTATIONS

*UH graduate student, **UH undergraduate student, † equal authorship

- Crow, S.E.**, Deenik, J.L. K. Enos, C.P. Giardina, T.M. Maaz, L. Nuss, J. Rivera-Zayas, C.A. Sierra, K. Todd-Brown and the Hawai‘i Partnership for Climate-Smart Commodities. Overcoming barriers to implementation through a holistic framework for characterizing place-based suites of practices that achieve meaningful climate benefits. American Geophysical Union Annual Meeting, San Francisco, CA December 2023. (Invited oral)
- Lam*, K.I., N. Cowen*, G. Feber*, E. Komolafe*, R.S. Collins*, M. Strickland, Z.E. Kayler, S.E. Crow, D.G. Williams. Bridging the knowledge gaps of deep soils. American Geophysical Union Annual Meeting, San Francisco, CA December 2023. (poster)
- Peter-Contesse, H., **S.E. Crow**, K. Todd-Brown, C.P. Giardina, S. Owen. Integrating remotely sensed data with plot-level forest metrics to identify significant drivers of soil carbon process across Hawai‘i’s forested landscapes. American Geophysical Union Annual Meeting, San Francisco, CA December 2023. (poster)
- Luo, Y., N. Wei, X. Lu, Y. Zhou, F. Tao, L. Jiang, C. Liao, Y. Huang, S. Niu, J. Xia, Q. Quan, B. Houlton, S.E. Crow, X. Xu, C. Goodale, C. Koven, C. Field. Preserving wood debris towards net-zero carbon emission. American Geophysical Union Annual Meeting, San Francisco, CA December 2023. (oral)
- Lam*, K.I., **S.E. Crow**, K. Keali‘ikanaka‘ole, M. Kalua, J.L. Deenik, J.W. Creswell, M. Kantar, T.M. Maaz, K. Enos, K. Zane, J.E. Lewis, D.T. Richardson, T.B. Beckstrom*. Pedogenesis of the Pu‘u ‘ōhi‘a soil in Mānoa, Hawai‘i: A mixed methods study. American Geophysical Union Annual Meeting, San Francisco, CA December 2023. (oral)
- Lam*, K.I., **S.E. Crow**, K. Keali‘ikanaka‘ole, M. Kalua, J.L. Deenik, J.W. Creswell, M. Kantar, T.M. Maaz, K. Enos, K. Zane, J.E. Lewis, D.T. Richardson, T.B. Beckstrom*. Pedogenesis of the Pu‘u ‘ōhi‘a soil in Mānoa, Hawai‘i: A mixed methods study. 2023 ASA-CSSA-SSSA International Annual Meeting, October, 2023, St. Louis MO. (poster)
- Beckstrom, T.B., M.B. Kantar, J.L. Deenik, Q. Chen, N. Nguyen, **S.E. Crow**. Insights from deep learning with MIR spectroscopy in Hawai‘i soil health modeling and assessment. 2023 ASA-CSSA-SSSA International Annual Meeting, October, 2023, St. Louis MO. (poster)
- Kiehl*, K.D., T.M. Maaz, **S.E. Crow**, J.L. Deenik. Evaluating the use of soil protein to predict nitrogen mineralization in soils with contrasting clay mineralogy and land use histories. 2023 ASA-CSSA-SSSA International Annual Meeting, October, 2023, St. Louis MO. (poster)
- Maaz, T.M., **S.E. Crow**, J.L. Deenik, M.K. Loo, C. Tallamy Glazer, T.B. Beckstrom*. Measuring the immeasurable: A structural equation modeling approach to conceptualizing and scaling up soil

- health assessments. 2023 ASA-CSSA-SSSA International Annual Meeting, October, 2023, St. Louis MO. (oral)
- M.K. Loo, J.L. Deenik, T.M. Maaz, **S.E. Crow**, D. Sotomayor, J. Rivera-Zayas, C. Tallamy Glazer, A. Krenz, S. Church*, K. Estrada*, M.L. Pagan, M. Stevensen, K. Kiehl*. Farmer-driven Implementation of Soil Health Management Systems Adapted to Diverse Cropping Systems in Tropical and Subtropical Island Environments. 78th SWCS International Annual Conference. Des Moines, IA, August 2023.
- Beckstrom, T.B., **S.E. Crow**, J.L. Deenik, T.M. Maaz, J. Rivera-Zayas, C. Tallamy Glazer. A holistic understanding of Andisol soil organic matter across and environmental gradient and its role in volcanic island resilience. 2023 NCSS Conference Soil, Energy, and Agriculture for Resilient Ecosystems, July 2023, Bismarck, ND.
- Tayo*, M.A.G., C.M. Litton, C.P. Giardina, and **S.E. Crow**. Controls on surface and subsurface soil organic matter composition and carbon storage along a mean annual temperature gradient in Hawai'i tropical montane wet forest. American Geophysical Union Annual Meeting, Chicago, IL, December 2022. (poster)
- Fullmer*, C., T.M. Maaz, C. McGrath, **S.E. Crow**, N.H. Nguyen. Deep fungi: soil depth structures fungal communities in a tropical volcanic soil. Mycological Society of America Annual Meeting, Gainesville, FL, July 2022. (poster)
- Crow, S.E.** and C.A. Sierra. Nature-based climate solutions are input and time dependent and may be quantified in terms of the climate benefit of sequestration for warming mitigation and systems-level analysis. American Geophysical Union Annual Meeting, New Orleans, LA, December 2021. (invited oral)
- Ball, K., **S.E. Crow**, C. Brien, A.A. Berhe, S. Rathke, and J. Blankinship. Inorganic carbon mediates tillage effects on soil organic carbon stocks in arid agricultural soils. American Geophysical Union Annual Meeting, New Orleans, LA, December 2021. (contributed poster)
- Pries, C. K. Heckman, P. Templer, S. Frey, and **S.E. Crow**. The response of deep soil carbon to climate change: From experiments to meta-analysis. EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-16152, <https://doi.org/10.5194/egusphere-egu21-16152>, 2021.
- Vizka, E.*, J.L. Deenik, H. Hubanks*, **S.E. Crow**. Climate-wise management: Soil mineralogy's primary influence on soil health in Hawai'i. American Geophysical Union Annual Meeting, Online, December 2020. (contributed poster)
- Crow, S.E.**, C.A. Sierra, M.F. Cotrufo, and J.W. Harden. Networking soil carbon and health: a common ground for actuating resilience and climate change mitigation. North American Carbon Program Open Science Meeting 2020, Washington D.C., March 2020. (abstract accepted, COVID-19)
- Tallamy Glazer, C., **S.E. Crow**, H. Hubanks, M.F. Cotrufo, M. Haddix. Mineral associated organic matter and soil health in Hawai'i. Goldschmidt2020, Honolulu, HI, June 2020. (abstract accepted, COVID-19)
- Crow, S.E.**, C. McGrath, C.E. Hicks Pries, N. Nguyen, M. Lazaro, C.P. Giardina, C.M. Litton. Complex non-crystalline mineralogy protects soil carbon from temperature-dependent decay. Goldschmidt2020, Honolulu, HI, June 2020. (abstract accepted, COVID-19)
- McGrath, C., **S.E. Crow**, C.E. Hick Pries, N. Nguyen, B. Glazer, S. Lio. Interactive feedbacks of climate, mineralogy and microbiological communities on soil carbon: A deep soil warming experiment. Goldschmidt2020, Honolulu, HI, June 2020. (abstract accepted, COVID-19)
- Sierra, C.A., **S.E. Crow**, M. Heimann, H. Metzler, and E.-D. Schulze. The climate benefit of carbon sequestration. European Geophysical Union Meeting, Vienna, April 2020. (contributed abstract, accepted)
- Crow, S.E.**, J.W. Harden, C.A. Sierra. Soil health and soil carbon: A common ground for actuating resilience and climate change mitigation. American Geophysical Union Annual Meeting, San Francisco, CA, December 2019. (contributed poster)
- McGrath, C.*, N. Nguyen, B. Glazer, S. Lio, C. Pries, K., **S.E. Crow**. Interactive feedbacks of climate, mineralogy and microbiological communities on soil carbon: A deep soil warming experiment.

- American Geophysical Union Annual Meeting, San Francisco, CA, December 2019. (contributed poster)
- Crow, S.E.. Timescales, a soil carbon conundrum, and actuating the benefits of accumulating carbon in landscapes. European Geophysical Union Meeting, Vienna, April 2019. (invited oral)
- Crow, S.E.**, H.L. Hubanks*, J.L. Deenik, C.J. Tallamy Glazer, E. Vizka*, N. Nguyen. The legacy of intensive land use on soil health and function. European Geophysical Union Meeting, Vienna, April 2019. (contributed abstract, accepted)
- Trumbore, S.E., C.R. Lawrence, J. Beem-Miller, A. Hoyt, G. Monroe, C. Sierra, S. Stoner, K.A. Heckman, J. Blankinship, **S.E. Crow**, and G. McNicol. ISRad: the International Soil Radiocarbon Database. European Geophysical Union Meeting, Vienna, April 2019. (contributed abstract, accepted)
- Hubanks*, H.L., J.L. Deenik, C.J. Tallamy Glazer, **S.E. Crow**. Towards a Soil Health Index: Identifying sensitive indicators of change across land use and soil diversity. Soil Science Society of America International Soils Meeting, San Diego, CA, January 2019. (contributed poster)
- Yu, J., L.M. Deem*, **S.E. Crow**, J.L. Deenik, C.R. Penton. Soil microbial community response to two years of biochar amendment revealed by metagenomics. International Society for Microbial Ecology Symposia, Leipzig, Germany, August 2018. (contributed poster)
- McGrath, C.*, N. Nguyen, B. Glazer, C. Pries, K. Sylva**, C. Evensen, **S.E. Crow**. Interactive feedbacks of climate mineralogy and microbiological communities on soil carbon: A deep soil warming experiment. Hawai'i Conservation Conference, July 2018, Honolulu, Hawai'i. (contributed poster)
- Beem-Miller, J., C. Lawrence, J. Blankinship, A. Hoyt, S. Stoner, C. Sierra, G. Monroe, G. McNicol, Y. He, C. Hatté, C. Treat, **S.E. Crow**, K. Heckman, M. Keiluweit, S. Trumbore. From fractions to fluxes: The international soil radiocarbon database. Radiocarbon Conference, Trondheim, Norway, June 2018. (contributed poster)
- Wells, J.M.*, **S.E. Crow**, J. Deenik, K. Carlson, A. Hashimoto. Understanding soil carbon storage across heterogeneous landscapes: carbon offsets and sustainability of tropical biomass production systems. 25th European Biomass Conference and Exhibition, Stockholm, Sweden, June 2017. (contributed oral)
- Wells, J.M.*, **S.E. Crow**, S.K. Khanal, S.Q. Turn, A. Hashimoto. Effects of anaerobic digestion and hot water pretreatment on lignin. 25th European Biomass Conference and Exhibition, Stockholm, Sweden, June 2017. (contributed oral)
- Crow, S.E.**, M.K. Lazaro*, K.A. Heckman, C.R. Lawrence, C.P. Giardina and C.M. Litton. Components of complex non-crystalline mineralogy contribute differently to soil carbon storage and turnover. American Geophysical Union Annual Meeting, San Francisco, CA, December 2016. (contributed poster)
- Blankinship, J.C., **S.E. Crow**, J. Schimel, C.A. Sierra, C. Schaedel, A.F. Plante, A.A. Thompson, A.A. Berhe, J.L. Druhan, K.A. Heckman, M. Keiluweit, C.R. Lawrence, E. Marin-Spiotta, C. Rasmussen, R. Wagai and W.R. Wieder. The soil carbon paradigm shift: Triangulating theories, measurements, and models. American Geophysical Union Annual Meeting, San Francisco, CA, December 2016. (contributed oral)
- Rasmussen, C., A.A. Berhe, J.C. Blankinship, **S.E. Crow**, J.L. Druhan, K.A. Heckman, M. Keiluweit, C.R. Lawrence, E. Marin-Spiotta, A.F. Plante, C. Schaedel, J. Schimel, C.A. Sierra, A. Thompson, R. Wagai and W.R. Wieder. Beyond clay – using selective extractions to improve predictions of soil carbon content. American Geophysical Union Annual Meeting, San Francisco, CA, December 2016. (contributed oral)
- Thompson, A.A., A.A. Berhe, J.C. Blankinship, **S.E. Crow**, J.L. Druhan, K.A. Heckman, M. Keiluweit, C.R. Lawrence, E. Marin-Spiotta, A.F. Plante, C. Rasmussen, C. Schaedel, J. Schimel, C.A. Sierra, A. Thompson, R. Wagai and W.R. Wieder. Representation of diffusion controlled carbon stabilization in reactive transport models. American Geophysical Union Annual Meeting, San Francisco, CA, December 2016. (contributed poster)

- Crow, S.E.**, J. Meulemans, L. Deem, K. Biegert, J. Deenik, J. Yanagida, C.R. Penton. The practical benefits of biochar application to environmental and economic viability. Biochar 2016 The Synergy of Science and Industry: Biochar's connection to Ecology, Soil, Food, and Energy. Oregon State University, Corvallis, OR, August 2016.
- Deem, L.M.*, **S.E. Crow**, J. Deenik, C. R. Penton, J. Yu Biochar increases temperature sensitivity of soil respiration and N₂O flux. Biochar 2016 The Synergy of Science and Industry: Biochar's connection to Ecology, Soil, Food, and Energy. Oregon State University, Corvallis, OR, August 2016.
- Crow, S.E.**, M.N. Meki, J. Kiniry, R. Ogoshi, A. Youkhana, M. Pawlowski*, M. Nakahata. Projecting global warming potential of production systems for tropical perennial C4 grasses cultivated for biofuel feedstock in Hawai'i. ASA, CSSA, and SSSA International Annual Meetings, Minneapolis, MN, November 2015. (contributed poster)
- Crow, S.E.**, et al. Soil organic matter stabilization/destabilization in DIRT. ASA, CSSA, and SSSA International Annual Meetings, Minneapolis, MN, November 2015. (invited talk)
- Meulemans, J.*, **S.E. Crow**, L. Deem*, J. Yanagida, J. Deenik. Effects of biochar amendment on GHG emission from tropical agricultural soils in two crop managements in Hawai'i. ASA, CSSA, and SSSA International Annual Meetings, Minneapolis, MN, November 2015. (contributed poster)
- Youkhana, A., **S.E. Crow**, R. Ogoshi, J.R. Kiniry, M.N. Meki, D. Richardson*, M. Nakahata. Allometric models for predicting aboveground biomass, carbon and nitrogen stocks in potential biofuel crops in Hawai'i. ASA, CSSA, and SSSA International Annual Meetings, Minneapolis, MN, November 2015. (contributed poster)
- Richardson, D*. **S.E. Crow**, A. Youkhana, J. Moore-Kucera, R. Ogoshi, M.N. Meki, J.R. Kiniry, M. Nakahata. Root biomass and microbial response to deficit irrigation treatments in the rhizosphere of biofuel feedstock cultivation in Hawai'i. ASA, CSSA, and SSSA International Annual Meetings, Minneapolis, MN, November 2015. (contributed poster)
- Deem, L.M.*, **S.E. Crow**, J. Deenik, R. Penton, J. Yu. The evaluation of biochar effects at both the field and laboratory scale: soil carbon, microbial community composition, and carbon dioxide efflux. 5th International Symposium on Soil Organic Matter, Göttingen, Germany, September, 2015. (contributed poster)
- Crow, S.E.**, L.M. Deem*, Y. Sumiyoshi*, J. Wells*, N. Hunter**, H. Yamazaki*. Belowground carbon dynamics under zero tillage management of tropical, perennial C4 grasses cultivated for biofuel production. 5th International Symposium on Soil Organic Matter, Göttingen, Germany, September, 2015. (contributed poster)
- Biegert*, K., S. Marhan, J. Meulemans*, S.E. Crow, J. Deenik. Biochar effects on greenhouse gas emissions from two Hawaiian arable soils. Meeting of the German Soil Science Society, München (Germany), September 2015. (contributed poster)
- Lazaro, M.K.*, **S.E. Crow**, C.A. Stiles, C.M. Litton, C.P. Giardina, P. Selmants, M. Reeves, S. Turn, S. Taniguchi, O.S. Schubert, T. Miura, and N. Koch. Comparison of soil carbon mapping techniques across the Hawaiian Islands. National Cooperative Soil Survey Conference, Duluth, MN, June 2015. (contributed poster)
- Yu, J., S.E. Crow, J. Deenik, C. R. Penton, L. Deem*. The effect of biochar amendment on microbial community composition, American Society for Microbiology, 115th General Meeting, New Orleans, LA, May 2015.
- Wells, J.*, **S.E. Crow**, A. Hashimoto, R. Ogoshi, J.R. Kiniry. Transforming conventional sugarcane into sustainable biofuel feedstock production: Optimizing C4 grass feedstock selection through lignin analysis and conversion efficiency study. American Society of Agricultural and Biological Engineers 2015, 1st Climate Change Symposium, Chicago, IL, May 2015.

CURRICULUM DEVELOPMENT

2016-2019 NREM Faculty Curriculum Committee Chair
 2014-2015 NREM Faculty Curriculum Committee Member

As a member of the NREM faculty curriculum committee I participated in the review and re-definition of the graduate program's student learning outcome and annual assessment of the program. Following several years of proposals, faculty feedback, and leadership by the departmental Curriculum Committee, of which I am a member since 2014 and currently Chair, the NREM Department revamped its core graduate courses (NREM600-601-605) to be case study-based, interactive, and interdisciplinary. Professor Kirsten Oleson (Ecological Economics) and I (Soil Ecology and Biogeochemistry) volunteered to take on the initial development and delivery of the course. The 5-credit pilot course was taught in Spring 2016 and expanded into a year-long 8-credit core curriculum in AY 2016-2017. In response to the identified needs of off-island and professional natural resource managers and conservationists for access to distance learning graduate education, I acted as co-Project Director on a 2016 proposal titled "Developing a professional environmental leadership degree program" led by Dr. M'Randa Sandlin to the USDA-NIFA Higher Education Challenge Grant RFA. Adapting the revised core course to an online format appropriate for the proposed degree was a central piece of the proposal; we continue to seek support for this endeavor.

I presented our department's efforts and outcomes at the 2017 Assessment for Curricular Improvement poster exhibit, March 2017. "A collaborative assessment process for sustained curriculum improvement in natural resources and environmental management".

My video from the 2017 Assessment Poster Exhibit is promoted on the Office's website: <http://manoa.hawaii.edu/assessment/workshops/poster2017/poster2017.htm#video>

COURSES

2016-present	Instructor/Co-Instructor , "Foundations of NREM and Policy" (NREM 600) and "Social-Ecological Systems Analysis of NREM" (NREM601). Co-developed and instructed a fully integrated interdisciplinary core course curriculum required for all NREM M.S. students with co-instructor, Dr. Kirsten Oleson. Formerly, "Evaluation of Natural Resource Management" (NREM 600), "Economic Analysis of Natural Resource Management" (NREM 601), and "Research Skills" (NREM 605).
2014, 2018	Instructor , "Advanced Topics in NREM: Quantitative Ecosystem Carbon" (NREM691). Developed and instructed graduate-level elective course in concepts and analytical methods for understanding and assessing terrestrial ecosystem carbon across broad time scales and geographic regions, University of Hawai'i Mānoa.
2009-2020	Co-instructor , "Fundamentals of Soil Science" (TPSS/NREM 304+Lab), further development, coordination, and delivery of undergraduate-level classroom lectures and laboratory activities, worked with teaching assistant, University of Hawai'i at Mānoa.
2013, 2015	Instructor , "Predicting and Controlling Degradation in Human-Dominated Terrestrial Ecosystems" (NREM 612). Graduate-level core course, continued development and delivery of lecture and current literature discussion-based course, University of Hawai'i Mānoa.
2013-2014	Co-Instructor , "Natural Resource Management" (NREM 301 + Lab), continued development, coordination, and delivery of undergraduate-level classroom lectures and laboratory activities, worked with teaching assistant, University of Hawai'i Mānoa.
2004	Graduate Teaching Assistant , "Introduction to Soil Science Laboratory", and "General Biology Laboratory: Genetics and Ecology", Oregon State University.

1999-2000 **Graduate Teaching Assistant**, “General Biology Laboratory” and “Science and Environmental Issues”, Villanova University.
 1999 **Undergraduate Teaching Assistant**, “Botany Laboratory”, College of William and Mary

GUEST LECTURES

2020 **Guest Lecturer**, “Theory and Practice of Sustainable Agriculture” (SCFS 320, UH West Oahu), guest lecture provided on the potential for soil ecosystems (locally and globally) to serve as sinks for CO₂ in soil organic matter.
 2018 **Guest Lecturer**, “Climate Change and Policy” (NREM 302), shared research path leading to active legislative outreach and policy implementation in Hawai‘i.
 2017 **Guest Lecturer**, “Introduction to Environmental Science and Sustainability” (OCN 101), facilitate discussion session on issues of renewable and non-renewable resources such as soils and biomass.
 2009-2012, **Guest Lecturer**, “Natural Resource Management” (NREM 301L), guest co-instructor
 2015-2017 for introductory soil science laboratory session, University of Hawai‘i Mānoa. (7 times)
 2014 **Guest Lecturer**, “Biomass Conversion to Biofuel and Bioenergy (BE 410), delivered lecture on climate change and biofuels/bioenergy for graduate students.
 2010-2014 **Guest Lecturer**, “Ecosystem Ecology” (NREM 680), lecture series on litter decay and soil carbon storage, University of Hawai‘i at Mānoa. (3 times)
 2006 **Guest Lecturer**, “Introduction to Soil Science”, lecture to ~80 undergraduate and graduate students Oregon State University
 2004 **Guest Lecturer**, “Honors Ecology”, lecture and lab session to undergraduates, Oregon State University

POSTDOCTORAL AND STUDENT TRAINING

Postdoctoral

2023-pr **Mentor**, Dr. Hayley Peter-Contesse, Junior Researcher, Postdoctoral Fellow
 2020-2022 **Mentor**, Dr. Johanie Rivera-Zayas, Postdoctoral Fellow
 2011-2016 **Advisor**, Dr. Adel Youkhana, Postdoctoral Researcher, “Water and carbon footprint and plant parameters of biofuel production on the HC&S sugarcane lands on Maui, Hawai‘i”.

Graduate

Ph.D.
 2022-pr **Advisor, Graduate Committee Chair**, Kristy Lam, NREM Ph.D., TBD.
 2014-2019 **Advisor, Graduate Committee Chair**, Jon Wells, NREM Ph.D., “Development of a new index to predict conversion efficiency of renewable fuel feedstocks”, degree awarded December 2019. Recipient of the 2016 CTAHR Symposium Award of Merit. Recipient of the 2017 CTAHR Symposium Best Oral Presentation for NREM Department.
 2012-2015 **Graduate Committee Member**, Bikash Paudel, NREM, Ph.D., “Evaluating conservation agriculture production systems for smallholder subsistence farmers in the hill region of Nepal”, degree awarded May 2015.
 M.S.
 2024-pr **Advisor, Graduate Committee Chair**, Harvey Castillo, NREM M.S. Plan A Thesis. TBD

2023-pr	Advisor, Graduate Committee Chair , Megan Gonsalves, NREM M.S. Plan A Thesis. TBD
2021-pr	Advisor, Graduate Committee Chair , Tanner Beckstrom, NREM M.S. Plan A, Thesis. TBD
2021-pr	Advisor, Graduate Committee co-Chair , Kristina Estrada, NREM M.S. Plan A, Thesis TBD
2020-pr	Graduate Committee Member , Christian Fullmer, TPSS Plan A. Thesis. “Carbon’s keepers: the nature and role of aggregates and microbial communities in a deep ferrihydritic Andisol, degree expected Spring 2024.
2020-2023	Graduate Committee Member , Malissa Tayo, NREM M.S. Plan A, Thesis. Controls on surface and subsurface soil organic matter composition and carbon storage along a mean annual temperature gradient in Hawaiian tropical montane wet forest. Degree awarded December 2023.
2016-2023	Graduate Committee Member , Chad Livingston, TPSS M.S. Plan A, Thesis. “Accounting for carbon in <i>Artocarpus altis</i> afforestation systems”, degree awarded December 2023.
2017-2019	Advisor, Graduate Committee Chair , Casey McGrath, NREM M.S. Plan A, Thesis. “Interactive feedbacks of climate and mineralogy on soil carbon: A tropical deep soil warming experiment”, degree awarded December 2019.
2017-2019	Advisor, Graduate Committee co-Chair , Hannah Hubanks, NREM M.S. Plan A, Thesis. “Measurable soil quality for Hawai‘i”, degree awarded May 2019.
2015-2019	Advisor, Graduate Committee Chair , Daniel Richardson, NREM M.S. Plan A, Thesis option, “Microbial community response to four years of zero-tillage harvest of perennial grasses following 100 years of intensive cultivation for sugarcane”, degree expected May 2019. Recipient of the 2017 CTAHR Symposium CTAHR M.S. Student Poster Presentation Award of Merit (2 nd place College-wide).
2016-2018	Advisor, Graduate Committee Member , Genelle Watkins, NREM M.S. Plan B, Capstone option. “Mangrove restoration and conservation in Pemba, East Africa”, degree awarded August 2018.
2014-2016	Advisor, Graduate Committee Chair , Jabez Meulemans, NREM M.S. Plan A, Thesis option, “Systems approach to assessing the environmental and economic sustainability of food and fuel crops with biochar soil amendment”, degree awarded May 2016.
2013-2016	Advisor, Graduate Committee Chair , Lauren Deem, NREM M.S. Plan A, Thesis option, “Mechanistic understanding of improvements in yield and sustainability of biochar-amended soil”, degree awarded May 2016.
2014-2015	Second Supervisor , Konni Biegert, Institute of Soil Science and Land Evaluation, University of Hohenheim, Germany, M.S. “Biochar effects on greenhouse gas emission from two Hawaiian arable soils”, Degree awarded December 2015.
2013-2015	Graduate Committee Member , Alexandra Hedgpeth, Geography M.A. “Sensitivity of Arctic permafrost carbon in the Mackenzie River Basin: an incubation experiment to observe the priming effect”, degree awarded December 2015.
2013-2015	Advisor, Graduate Committee Member , Michelle Lazaro, NREM M.S., Plan B. Recipient of the 2013 Hau‘oli Mau Loa Foundation Graduate Fellowship in NREM, Capstone Project Title “Optimization of baseline soil carbon stock assessment across the Hawaiian Islands”, degree awarded May 2015.
2013-2014	Advisor, Graduate Committee Chair , Whitney Ray, NREM M.S. Plan A, Thesis option, “Greenhouse gas emission balance of biofuel feedstock for potential carbon trading”, degree awarded December 2014.
2012-2014	Graduate Committee Member , Benjamin Czeck, Geology and Geophysics Department M.S., Thesis “Our food in a changing climate: growth, yield, and nutrient changes of

- sweet potato across the spectrum of CO₂ concentrations projected in the next 150 years”, degree awarded May 2014.
- 2012-2013 **Advisor, Graduate Committee Member** Hironao Yamazaki, NREM, M.S. Plan B, Capstone Project Title “Alteration in soil carbon pools following land use and management change for bioenergy feedstock production”, degree awarded December 2013.
- 2012-2013 **Graduate Committee Member**, James Harmon, Tropical Plant and Soil Sciences Department, M.S. Plan B, capstone Project Title “Composting to improve sustainable food production systems and water quality in Pohnpei, Federated States of Micronesia”, degree awarded May 2013.
- 2011-2013 **Advisor, Graduate Committee Chair**, Meghan Pawlowski, NREM, M.S. Plan A, Thesis option, “Greenhouse gas flux and fine root dynamics of sugarcane and Napier grass under deficit irrigation”, degree awarded May 2013.
- 2011-2013 **Graduate Committee Member**, Alisa Davis, NREM, M.S. Plan A, Thesis Option, “*Toxoplasma gondii* detection in the environment from naturally infected cats in Hawai‘i”, degree awarded May 2013.
- 2010-2012 **Advisor, Graduate Committee Chair**, Mataia Reeves, M.S. Plan A, Thesis option, “The potential carbon sequestration of *Eucalyptus grandis* in conjunction with its use as a biofuel feedstock”, degree awarded December 2012.
- 2010-2012 **Advisor, Graduate Committee Chair**, Yudai Sumiyoshi, M.S. Plan A, Thesis option, “Belowground carbon cycle of Napier and Guinea grasses grown for sustainable biofuel feedstock production”, degree awarded December 2012. Awarded “Best NREM Master’s Student Presentation” at the 2011 CTAHR Student Research Symposium. Awarded “2011 Outstanding Student Paper Award” from the Biogeosciences Section of the American Geophysical Union.
- M.E.M.
- 2023-pr **NREM Advisor, Committee member**, Lydia Barron
- 2022-pr **NREM Advisor, Committee member**, Destiny Apilado
- 2019-2021 **NREM Advisor, Committee member**, Alexis Kerver
- 2019-2021 **NREM Advisor, Committee member**, Ryan Uenton.

Undergraduate

- 2017 **Mentor**, Directed Research (Writing Intensive), Annika Little
- 2017 **Internship Advisor**, Kaelin Sylva, NREM Department
- 2017 **Internship Advisor**, Annika Little, NREM Department
- 2015 **Honors Thesis Committee Member**, William Thompson, TPSS Department, “The role of ash in the efficacy of biochar amendment for promoting plant growth”.
- 2014 **Honors Thesis Committee Member**, Josiah M. K. Marquez, TPSS Department, “Biochar increasing internal tolerance to manganese toxicity in a manganese-rich acid soil”.
- 2013 **Internship Advisor**, Daniel Richardson and Nathan Hunter, NREM Department
- 2013 **Honors Thesis Committee Member**, Karl Hsu, Geography Department, “Study of long-term climate change and plant ecosystem processes in Hawai‘i using copper oxide chemistry of organic sediments”.
- 2012 **Mentor**, Erika Mizokuchi, Water, Energy, Soil & Sustainability (WESS) Student Intern. Senior Thesis “Cation exchange capacity and carbon quality of biochar amended soils”.
- 2012 **Mentor**, Michelle Lazaro, Center for Microbial Oceanography: Research and Education (C-MORE) Scholars Intern, Undergraduate “Directed Research” student, awarded University of Hawai‘i at Mānoa Undergraduate Research Opportunities Program

Fellowship (\$5000 research funds). “Best NREM Undergraduate Presentation” at 2013 CTAHR Student Research Symposium.

2012 **Internship Advisor**, Mark Miller, NREM Department

2012 **Internship Advisor**, Mariko Panzella, TPSS Department

2011-2012 **Mentor**, Mariko Panzella, Undergraduate “Directed Research” student, awarded University of Hawai‘i at Mānoa Undergraduate Research Opportunities Program Fellowship (\$3000 stipend).

2010 **Internship Advisor**, Heather Kikkawa, NREM Department

2009-2010 **Mentor**, Mataia Reeves, Undergraduate “Directed Research” student, awarded “Best Undergraduate Presentation” at 2010 CTAHR Student Research Symposium.

High School

2014 **Science Fair Project Mentor**, Matthew Dufale, Farrington High School, “Soil amendments in ambient CO₂ concentrations impact the balance of greenhouse gases”. 4th Place Overall and Best in Category (Environmental Management) at the Kapioloani District Science Fair; interviewed on Hawai‘i News Now (Friday, March 28, 2014); Finalist at the Hawai‘i State Science Fair: Best of Category Environmental Management; Hawai‘i Conservation Alliance 1st Place (\$500); DuPont Pioneer 1st Place (\$150); Pepperman Alpert Memorial Gift Certificate winner.

2011 **Science Fair Project Mentor**, Steven Okada, Maui High School, “Phytolith sequestration in *Saccharum officinarum* and *Pennisetum purpureum*.”

DEPARTMENT, COLLEGE, UNIVERSITY SERVICE

CTAHR Research Advisory Committee to Associate Dean of Research, Walter Bowen, 2020-present.

Graduate Committee Member, NREM, 2019-2021 Chair 2021-present.

NREM Departmental Promotion Committee (DPC), 2019-2021.

Search Committee Member, NREM, “Applied Environmental Economics”, Spring 2020

Faculty Curriculum Committee Member, NREM, 2014-2018. Chair 2015-2018.

Search Committee Member, NREM, “Extension Agent, Agricultural Finance”, Spring 2018

Search Committee Member, NREM, “Applied Ecology and Sustainable Management”, Spring 2017.

Search Committee Member, Tropical Plant and Soil Sciences, “Soil Microbiology”, Spring-summer 2015.

Selected participant in the 2015 Innovation Showcase: highlighting cutting-edge innovations and technologies from the faculty of UH Mānoa’s College of Tropical Agriculture and Human Resources and the Tokyo University of Agriculture and Technology, May 2015.

Search Committee Member, NREM, “Assistant Professor in NREM”, Winter 2014.

Search Committee Member, NREM, “Tropical Soils and Watershed Hydrology”, Spring-Summer 2014.

CTAHR Faculty Senate – elected NREM representative, served Spring 2015-Fall 2017.

CTAHR Strategic Planning Action Team #5 – Land Development Opportunities, Fall 2013-present.

Exhibitor – The World Congress on Zero Emissions: Launching the “Blue Economy”, September 2010.

Faculty judge, CTAHR Student Research Symposium, April 2010, 2014, 2016, 2017.

PROFESSIONAL SERVICE

Science Leadership Group member for the North American Carbon Program, 2019-present.

European Joint Programme (EJP) SOIL reviewer and rapporteur 2021, 2022.

Reviewer, UKRI Future Leaders Fellows, 2021.

Associate Editor, Biogeochemistry, a Springer Journal, 2015-2020.

Peer reviewer, Journals and Book Chapters: Pacific Science, Ambio, Journal of Plant Nutrition and Soil Science, Global Change Biology, Nature, Geoderma

Proposal review panel member, USDA NIFA AFRI, Foundational and Applied Science Program, BNRE Soil health. October 2019.

Conference session organizer: American Geophysical Union, New Orleans, LA, 2021. Soils in the Anthropocene: Advancing characterizations and monitoring of soil health, with Martha Farella (Indiana University Bloomington) and Daniel Liptzin (Soil Health Institute)

Conference session organizer: American Geophysical Union, Online, 2020. Soils in the Anthropocene: Linking soil health indicators to function, with Claire Phillips (USDA-ARS) and Daniel Liptzin (Soil Health Institute)

Conference session organizer: American Geophysical Union, San Francisco, 2019. Aligning soil organic matter mechanisms, measurements, and models across scales, with Kate Heckman (USFS)

Conference session organizer: Soil Science Society of America International Soils Meeting, San Diego, 2019. Soil carbon is dead, long live soil carbon! Assessing and predicting transformations, protection, and turnover.

Editorial Review Board Member, Biogeochemistry, a Springer Journal, 2012-2015.

Proposal review panel member, U.S. Department of Energy, Environmental System Science Funding Opportunity Announcement (DE-FOA-0001386), Early Career Research Program, Biological and Environmental Research – Improved understanding of tropical forest ecosystems to climate change. Gaithersburg, MD, February 2016

Proposal review panel member, U.S. Department of Energy, Environmental System Science Funding Opportunity Announcement (DE-FOA-0001172), Terrestrial Ecosystem Sciences, Belowground Ecology, Rockville, MD, March 2015.

Peer reviewer, Journals and Book Chapters: Ecosphere (1), Science (1), Journal of Agronomy (1), BioEnergy (1), Journal of Plant Nutrition and Soil Science (1), Quaternary Geochronology (1), Rapid Communications in Mass Spectrometry (1), Radiocarbon (1), Geoderma (1), Organic Geochemistry (1), Ecosystems (2), Soil Biology & Biochemistry (2), Science of the Total Environment (2), Forest Science (2), Soil Science Society of America Journal (2), Global Change Biology (2), Biogeochemistry (9), Wiley-Blackwell Publishers (1).

Peer reviewer, Proposals: National Science Foundation (NSF)-DEB, Ecosystems; NSF EAR Instrumentation & Facilities; Bergen Research Foundation & University of Bergen, Norway, provided international external review of early-career proposal, May 2015; European Commission ERC-2015-AdG Call, provided international external review of one research project.

Conference session Convener: American Geophysical Union Annual Meeting, 2016. B22B – Soil carbon dynamics: Diving into our conceptual and operational view of soil carbon pools.

Conference session Chair: American Geophysical Union Annual Meeting, 2014. B22C – Soil organic matter dynamics: Processes of stabilization and decomposition.

Conference organizing committee, Chief Editor of conference abstracts publication, BIOGEOMON 5th International Symposium on Ecosystem Behavior, University of Santa Cruz, CA, June 2006.

Assistant to the organizing committee, 2nd International Conference on Mechanisms of Organic Matter Stabilization and Destabilization in Soils, Asilomar, CA, 2005.

Conference organizing committee, Co-Editor of conference abstracts publication, BIOGEOMON 4th International Symposium on Ecosystem Behaviour, University of Reading, UK, 2002.

PROFESSIONAL AND NETWORK MEMBERSHIPS

American Geophysical Union, Soil Science Society of America, International Soil Carbon Network, Society of Soil and Water Conservation

KIRSTEN L.L. OLESON, PH.D.

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<https://orcid.org/0000-0002-7992-5051>

EDUCATION

Ph.D. Interdisciplinary Program in Environment and Resources (IPER)	2007
Stanford University, Stanford, California. Dissertation: <i>Sustainability of comprehensive wealth: A practical and normative assessment</i> . Committee: Lawrence Goulder, Debra Satz, Kenneth Arrow, Rosamond Naylor, Barton Thompson III, David Freyberg.	
M.Sc. Applied Environmental Economics	2005
University of London, Imperial College, U.K. Thesis: <i>Sustainability analysis of global consumption using genuine savings</i> .	
Ir. (Engineer; M.Sc. equivalent) Civil and Environmental Engineering	1998
Technische Universiteit Delft, the Netherlands. Thesis: <i>Quality control of phosphorus analysis of soils</i> .	
B.Sc. Civil and Environmental Engineering	1996
University of Virginia, Charlottesville, Virginia. Thesis: <i>Constructed wetland use in filtering highway run-off</i> .	

ACADEMIC APPOINTMENTS

University of Hawai'i at Mānoa (UH)	
<i>Professor of Ecological Economics</i>	2022 – present
<i>Associate Professor of Ecological Economics</i>	2017 – 2022
<i>Assistant Professor of Ecological Economics</i>	2012 – 2017
Department of Natural Resources and Environmental Management College of Tropical Agriculture and Human Resources	
<i>Graduate Program Chair</i>	2018 – 2021
<i>Fellow, University of Hawai'i Economic Research Organization (UHERO)</i>	2015 – current
<i>Affiliated Faculty, Water Resources Research Center</i>	2015 – current
<i>Adjunct Senior Fellow, East-West Center</i>	2021 – current
National Science Foundation	2010 – 2011
<i>International Post-Doctoral Research Fellow and Principal Investigator, Blue Ventures Conservation, Madagascar.</i>	
Public Policy Program, Stanford University	2007 – 2009
<i>Teaching Fellow, Faculty for new Master's in Public Policy program, designed curriculum, taught core courses, and advised students.</i>	
Stanford Institute for Economic Policy Research, Stanford University	2006 – 2009
<i>Co-Investigator and Research Fellow, Quantitative natural resource ethics.</i>	
Interdisciplinary Program in Environment and Resources, Stanford University	2003 – 2007
<i>Principal Investigator, Ph.D. Dissertation.</i>	
Centre d'Ecologie des Systèmes Aquatiques Continentaux, Université Paul Sabatier (Toulouse, France) and Technische Universiteit Delft (the Netherlands)	1997 – 1998
<i>Principal Investigator, Master's Thesis.</i>	

PROFESSIONAL APPOINTMENTS

Environmental Consultant	2003 – current
Sole proprietor specialized in environmental and economic assessment. Clients included World Bank, Packard Foundation, Conservation International, Secretariat of the Pacific Regional Environment Programme (SPREP), Blue Ventures Conservation.	
Blue Ventures Conservation, Madagascar	2009 – 2010
Lead Environmental Economist. Bio-economic modeling, ecosystem service assessment, total economic valuation, and cost-benefit analysis of coastal conservation policy.	
The World Bank, Latin America and Caribbean Region	1998 – 2003
Staff Environmental Engineer; Operations Analyst; Intern with Environmentally and Socially Sustainable Development Department. Specialized in environmental assessment. Projects in Brazil, Chile, Colombia, India, Kazakhstan, Mexico, Peru, Poland, Saint Lucia, and Ukraine.	
Indo-Dutch Programme on Alternatives in Development	1996 – 1997
International conference coordinator, the Hague, the Netherlands.	

GRANTS RECEIVED

Notes: NOAA = National Oceanic and Atmospheric Administration; USGS = US Geological Survey; DBEDT = Dept of Business, Economic Development and Tourism; DLNR = Department of Land and Natural Resources; DAR = Division of Aquatic Resources; NIFA = National Institute of Food and Agriculture; DoH = Department of Health

As PI

Using natural capital accounting to embed climate impacts into routine decision-making
 NOAA Sea Grant College Program
 \$142,202
 2022 – 2024

The Hawaiian model: Valuing and integrating nature's services for conservation choices
 Pew Charitable Trusts (2021 Pew Marine Fellow)
 \$150,000
 2021 – 2024

Economic analysis of climate bridging organizations
 NOAA Climate Program
 \$18,078
 2021 – 2022

Updating the Genuine Progress Indicator for the state of Hawai'i
 State of Hawai'i Department of Business, Economic Development, and Tourism
 \$148,958
 2021

Water natural capital accounts for Hawai'i
 Ulupono Initiative
 \$43,804
 2019

Examining how ridge-to-reef governance in Palau can enhance coastal food security
Pacific Islands Climate Adaptation Science Center
\$49,392
2021 – 2022

Exploring water natural capital accounts as a climate adaptation planning tool
NOAA Climate Program
\$70,000
2020 - 2021

Preferences for local seafood
Conservation International
\$30,000
2019

Sport fisher survey
Palau National Marine Sanctuary
\$25,000
2018 - 2020

Assessing nearshore management strategies for coral resilience
NOAA Coral Reef Conservation Program
\$79,739
2017-2019

Ecosystem service trade-offs from alternative fire management strategies in Hawai'i's forests
US Department of Agriculture – National Institute for Food and Agriculture (McIntire Stennis)
\$125,000
2017 – 2022

Socio-economic baseline of Palau's fisheries sector
National Geographic Society Pristine Seas
\$216,846
2016 – 2018

Socio-economic assessment of marine water quality threats in West Maui and Kona, Hawai'i
NOAA Coral Reef Conservation Program
\$79,994
2016 – 2017

Evaluating the economic impacts of climate variability and change on Maui's freshwater resources and ecosystem services
Department of Interior – Pacific Island Climate Science Center
\$68,490
2016 – 2017

Evaluating potential solutions to West Maui's coral reef declines

Department of Defense – US Army Corps of Engineers

\$99,970

2015 – 2016

Mapping and environmental science to support clean reefs of West Maui, Hawai'i

Department of Interior – Pacific Island Climate Science Center

\$21,867

2015 – 2016

Participatory Driver-Pressure-State-Impact-Response modeling

NOAA Kona Integrated Ecosystem Assessment

\$48,000

2014 – 2016

Evaluating management effectiveness for land-based sources of pollutants

NOAA Coral Reef Conservation Program

\$77,561

2014 – 2016

Managing multiple ecosystem services with changing land use in west Maui

USGS Water Resources Research Center

\$20,208

2014 – 2015

Value and supply chain mapping

Conservation International

\$87,305

2014 – 2015

Ecosystem service modeling and mapping

NOAA Coral Reef Conservation Program

\$68,552

2013 – 2015

Climate change impact assessment for coral reef ecosystem services

Department of Interior – Pacific Island Climate Science Center

\$249,718

2013 – 2015

Spatial trade-off analysis

NOAA Hawaiian Islands Humpback Whale National Marine Sanctuary

\$56,135

2013 – 2015

Cost-benefit analysis of climate adaptation options for freshwater security

Secretariat of the Pacific Regional Environment Program

\$20,000
2012

As co-PI/co-I

What Does It Take to Build and Maintain a Sustainable Recreational Trails System in the Hawaiian Islands?

Hawaii Department of Land and Natural Resources

\$1,100,000

2022-2026

Hawai'i Climate Smart Commodities: A Portfolio Approach to Equitably Scaling the Agriculture Sector
USDA

\$10,823,670

2022 – 2027

Supporting Equitable Nature-Based Solutions for Flood Mitigation

University of Alabama

\$487,127

2022-2026

Working towards sustainability of Hawai'i's nearshore fisheries

UH SeaGrant

\$231,291

2022-2024

Co-PI

The Pacific RISA Phase IV: Building equitable and just climate solutions for Pacific Island resilience to compound disasters and extreme events

NOAA Climate Program Office

\$7,010,693 (\$504,455)

2021 - 2026

co-PI

Assessing current and future ocean acidification and climate vulnerabilities along the Hawaiian Archipelago

NOAA Ocean Acidification Program

\$1,039,492 (\$375,888)

2021 - 2014

co-PI

Assessing the impact of future climate on Hawai'i's aquatic ecosystems

National Fish and Wildlife Foundation

\$150,000 (\$0)

2020 – 2022

co-I

NSF/NIFA INFEWS: Sustaining California's food production through integrated water and energy management

USDA National Institute for Food and Agriculture

\$2,500,000 (\$194,849)

2017 – 2022

co-PI

Updating Hawai'i's cesspool prioritization and timeline strategy

State of Hawai'i Department of Health

\$209,388

2020 – 2021

co-I

Decision science for cesspool upgrading prioritization

State of Hawai'i Department of Health

\$99,000

2018 – 2019

co-PI

Working towards sustainability of Hawai'i's nearshore fisheries through characterizing and modeling fisheries regulation effects

NOAA Sea Grant College Program

\$231,291 (\$0)

2022 – 2024

co-I

Assessing the value and supply chain for coastal fisheries in the main Hawaiian Islands

NOAA Saltonstall Kennedy Grant

\$249,498

2015 – 2017

co-I

Ocean Tipping Points

Moore Foundation

\$838,500

2014 – 2017

Co-PI

Economic tourism value of Guam's fisheries

NOAA Coral Reef Conservation Program

\$37,485

2012 – 2013

co-I

PUBLICATIONS

Notes:

- I underline my direct advisees, post-doctoral fellows, and research assistants, and *italicize* other student co-authors. Where a student and I worked equally on the research, we agreed to be co-primary authors (designated with an *).
- To specify my contribution to each paper across these diverse authorship conventions, I estimate my percent contribution to total effort in each of five categories: (i) concept and design of the study; (ii) data collection and processing; (iii) analysis of the data; (iv) interpretation of results; (v) preparation of the manuscript.
- In parentheses, I note the 2020 Thomson Reuters InCites journal ranking, if available, and the number of times the article has been cited.

Refereed Publications

- Fezzi, C.F., , D. Ford, **K.L.L. Oleson** (2023). The economic value of coral reefs: Climate change impacts and spatial targeting of restoration measures. *Ecological Economics*. (%: 50; 30; 30; 50; 50) (6.536)
- Friedlander, A.M., A. Bukurrou, A. Filous, C.M. Karanasson, H. Koike, S. Koshiba, G. Mereb, V. Nestor, **K.L.L. Oleson**, D. Olsudong, J. Oruetamor, E.I. Otto, K. Polloi, G. Rengiil, E. Tellei, Y. Golbuu (2023). Assessing and managing charismatic marine megafauna in Palau: Bumphead parrotfish (*Bolbometopon muricatum*) and Napoleon wrasse (*Cheilinus undulatus*). (%: 5; 5; 5; 5; 5) *Aquatic Conservation*. (3.258)
- Perng, L.Y., J. Walden, K.M. Leong, G.S. DePiper, C. Speir, S. Blake, K. Norman, S. Kasperski, M. Weijerman, **K.L.L. Oleson** (2023). Identifying social thresholds and measuring social achievement in social-ecological systems: A cross-regional comparison of fisheries in the United States. *Marine Policy*, 152, p.105595. (%: 10; 0; 0; 5; 10) (4.315)
- Oleson, K.L.L.**, M.D. Barnes, A. Fung, W. Goodell, T.A. Oliver, R. Whittier, and R. Babcock (2023). Trade-offs across values in cesspool management highlight challenges to policy making. *Journal of Environmental Management* 330:1168853. (%: 50; 50; 50; 50; 75) (8.910)
- Seipp, K.Q., T. Maurer, M. Elias, P. Saska, C. Keske, **K.L.L. Oleson**, B.N. Egoh, R. Cleveland, C. Nyelele, N. Goncalves, K. Hemes, P. Wyrsh, D. Lewis, M.G. Chung, H. Gua, M. Conklin, R. Bales (2023). A multibenefit framework for funding forest management implementation in fire-driven ecosystems across the Western US. *Journal of Environmental Management*. (%: 5; 5; 5; 5; 5) (8.910)
- Wilmot, E., J. Wong, Y. Tsang, A.J. Lynch, D. Infante, **K.L.L. Oleson**, A. Strauch, H. Cliverd (2022). Characterizing mauka-to-makai connections for aquatic ecosystem conservation on Maui, Hawai'i. *Ecological Informatics*. 70:101704. (%: 5; 0; 0; 5; 5) (4.498)
- Bagstad, K.J., J.C. Ingram, C.D. Shapiro, A. La Notte, J. Maes, S. Vallecillo, C.F. Casey, P.D. Glynn, M.P. Heris, J.A. Johnson, C. Lauer, J. Matuszak, **K.L.L. Oleson**, S.M. Posner, C. Rhodes, B. Voigt (2021). Lessons learned from development of natural capital accounts in the United States and European Union. *Ecosystem Services*. 52: 101359. (%: 5; 5; 5; 5; 5) (6.910)
- Hume, A., J. Leape, **K.L.L. Oleson**, E. Polk, K. Chand, R. Dunbar (2021). Towards an ocean-based large ocean states country classification. *Marine Policy*. 134:104766. (%: 5; 0; 10; 15; 15) (4.315)
- Iwane, M.A., K.L. Leong, M. Vaughan, **K.L.L. Oleson** (2021). When a shark is more than a shark: A socio-political problem-solving approach to fisher-shark interactions. *Frontiers in Marine Science*. (%: 10; 0; 0; 30; 30) (4.912) (8)
- Suan, A., K.L. Leong, **K.L.L. Oleson** (2021). Automated content analysis of the Hawai'i small boat fishery survey reveals nuanced, evolving conflicts. *Ecology and Society*. (%: 30; 0; 15; 33; 33) (4.403) (N/A)
- Dacks, R., S.A. Lewis, P.A.S. James, L. Marino, **K.L.L. Oleson** (2020). Documenting baseline value chains of Palau's nearshore and offshore fisheries prior to implementing a large-scale marine protected area. *Marine Policy* 117:103754. (%: 80; 30; 30; 30; 30) (4.173) (13)

- Gruby, R., N. Gray, L. Fairbanks, E. Havice, L. Campbell, A. Friedlander, **K.L.L. Oleson**, K. Sam, L. Mitchell, Q. Hanich (2020). Large-scale marine protected areas meet fisheries management: Policy interactions in ocean governance. *Conservation Letters* e12753. (%: 10; 10; 10; 10; 10) (8.105) (8)
- Lewis, S.A., C. Fezzi, R. Dacks, S. Ferrini, P.A.S. James, L.L. Marino, Y. Golbuu, **K.L.L. Oleson** (2020). Mitigating unintended consequences of conservation policies requires understanding tourists' socio-economic behavior and preferences. *Nature Food* 1:783-786. (%: 80; 30; 30; 30; 30) (5)
- Oleson, K.L.L.**, K.J. Bagstad, C. Fezzi, M.D. Barnes, M.K. Donovan, K.A. Falinski, K.D. Gorospe, H. Htun, J. Lecky, F. Villa, T. Wong (2020). Linking land and sea through an ecological-economic model of coral reef recreation. *Ecological Economics* 177:106788. (%: 100; 60; 50; 50; 75) (4.482) (12)
- Warnell, K.J.D., M. Russell, C. Rhodes, K.J. Bagstad, L.P. Olander, D.J. Nowak, R. Poudel, P.D. Glynn, J.L. Hass, S. Hirabayashi, J.C. Ingram, J. Matuszak, **K.L.L. Oleson**, S.M. Posner, F. Villa (2020). Testing ecosystem accounting in the United States: A case study for the Southeast. *Ecosystem Services* 43:101099. (%: 5; 0; 0; 5; 5) (5.454) (25)
- Weijerman, M., Z. Oyafulo, K. Leong, **K.L.L. Oleson**, M. Winston (2020). Supporting EBFM in meeting multiple objectives for sustainable use of coral reef ecosystems. *ICES Journal of Marine Science* fsaa194. (%: 10; 0; 5; 15; 15) (3.593) (2)
- Winter, K.B., N.K. Lincoln, F. Berkes, R.A. Alegado, N. Kurashima, K.L. Frank, P. Pascua, Y.M. Rii, F. Reppun, I.S.S. Knapp, W.C. McClatchey, T. Ticktin, C. Smith, E.C. Franklin, **K.L.L. Oleson**, M.R. Price, M.A. McManus, M.J. Donahue, K.S. Rodgers, B.W. Bowen, C.E. Nelson, B. Thomas, J.-A. Leong, E.M.P. Madin, M.J. Rivera, K.A. Falinski, L.L. Bremer, J.L. Deenik, S.M. Gon III, B. Neilson, R. Okano, A. Olegario, B. Nyberg, A. Kawelo, K. Kotubetey, J. Kukea-Shultz, R.J. Toonen (2020). Ecomimicry in Indigenous resource management: optimizing ecosystem services to achieve resource abundance, with examples from Hawai'i. *Ecology and Society* 25(2):26. (%: 0; 0; 0; 4; 4) (4.403) (38)
- Winter, K.B., Y. M. Rii, F. A.W.L. Reppun, K. DeLaforge Hintzen, R.A. Alegado, B.W. Bowen, L.L. Bremer, M. Coffman, J.L. Deenik, M.J. Donahue, K.A. Falinski, K. Frank, E.C. Franklin, N. Kurashima, N. Kekuewa Lincoln, E.M.P. Madin, M.A. McManus, C.E. Nelson, R. Okano, A. Olegario, P. Pascua, **K.L.L. Oleson**, M.R. Price, M.J. Rivera, K.S. Rodgers, T. Ticktin, C.L. Sabine, C.M. Smith, A. Hewett, R. Kaluhiwa, M. Cypher, B. Thomas, J.-A. Leong, K. Kekuewa, J. Tanimoto, K. Kukea-Shultz, A. Kawelo, K. Kotubetey, B.J. Neilson, T.S. Lee, R.J. Toonen (2020). Collaborative research to inform adaptive comanagement: a framework for the He'eia National Estuarine Research Reserve. *Ecology and Society* 25(4):15. (2%) (%: 0; 0; 0; 2; 2) (4.403) (15)
- Barnes, M.D., W. Goodell, R. Whittier, R., K.A. Falinski, T. Callender, H. Htun, C. Leviol, H. Slay, **K.L.L. Oleson** (2019). Decision analysis to support wastewater management in coral reef priority area. *Marine Pollution Bulletin* 148:16-29. (%: 60; 30; 20; 30; 40) (5.553) (10)
- Jouffray, J.B., L. Wedding, A. Norström, M. Donovan, G. Williams, L. Crowder, A. Erickson, A. Friedlander, N. Graham, J. Gove, C. Kappel, J. Kittinger, J. Lecky, **K.L.L. Oleson**, K. Selkoe, C. White, I. Williams, M. Nystrom (2019). Parsing human and biophysical drivers of coral reef regimes. *Proceedings of the Royal Society B* 286(1896):20182544. (%: 5; 0; 0; 5; 5%) (5.349) (33)
- Boyd, J.W., K.J. Bagstad, J.C. Ingram, C.D. Shapiro, J.E. Adkins, C.F. Casey, C.S. Duke, P.D. Glynn, E. Goldman, M. Grasso, J.L. Hass, J.A. Johnson, G. Lange, J. Matusak, A. Miller, **K.L.L. Oleson**, S.M. Posner, C. Rhodes, F. Soulard, M. Vardon, F. Villa, B. Voigt, S. Wentland (2018). The natural capital accounting opportunity: let's really do the numbers. *BioScience* 68(12):940-943. (%: 5; 5; 5; 5; 5) (8.589) (11)
- Bremer, L.L., K. Falinski, C. Ching, C.A. Wada, K.M. Burnett, K. Kukea-Shultz, N. Reppun, G. Chun, **K.L.L. Oleson**, T. Ticktin (2018). Biocultural restoration of traditional agriculture: cultural, environmental,

- and economic outcomes of lo'i kalo restoration in He'eia, O'ahu. *Sustainability* 10(12):4502. (%: 25; 10; 10; 10; 10) (3.251) (21)
- Bryant, B.P., M.E. Borsuk, P. Hamel, **K.L.L. Oleson**, C.J.E. Schulp, S. Wilcock (2018). Transparent and feasible uncertainty assessment adds value to applied ecosystem services modeling. *Ecosystem Services* 33:103-109. (%: 15; 15; 15; 15; 10) (5.454) (18)
- Delevaux, J.M., R. Whittier, K.A. Stamoulis, L.L. Bremer, S. Jupiter, A.M. Friedlander, M. Poti, G. Guannel, N. Kurashima, K.B. Winter, R. Toonen, E. Conklin, C. Wiggins, A. Knudby, W. Goodell, K. Burnett, S. Yee, H. Htun, **K.L.L. Oleson**, T. Wiegner, T. Ticktin (2018). A linked land-sea modeling framework to inform ridge-to-reef management in high oceanic islands. *PLoS One* 13(3): e0193230. (%: 40; 0; 0; 10; 10) (3.240) (33)
- Donovan, M., A. Friedlander, J. Lecky, J. Jouffray, G. Williams, L. Wedding, L. Crowder, A. Erickson, N. Graham, J. Gove, C. Kappel, K. Karr, J. Kittinger, A. Norström, M. Nyström, **K.L.L. Oleson**, K. Stamoulis, C. White, I. Williams, K. Selkoe (2018). Combining fish and benthic communities into multiple regimes reveals complex reef dynamics. *Scientific Reports* 8(1):16943. (%: 10; 0; 0; 10; 10) (4.379) (28)
- Ingram, R., **K.L.L. Oleson**, J. Gove (2018). Revealing complex social-ecological interactions through participatory modeling to support ecosystem-based management in Hawai'i. *Marine Policy* 94:180-188. (%: 60; 20; 20; 33; 40) (4.173) (26)
- Oleson, K.L.L.**, S. Grafeld, P. van Beukering, L. Brander, P.A.S. James, E. Wolfs (2018). Charting progress towards system-scale ecosystem service valuation in islands. *Environmental Conservation*. Doi:10.107/S0376892918000140 (%: 90; 30; 40; 40; 50) (3.012) (6)
- Wedding, L.M., J. Lecky, J.M. Gove, H.R. Walecka, M.K. Donovan, G.J. Williams, J. Jouffray, L.B. Crowder, A. Erickson, K. Falinski, A.M. Friedlander, C.V. Kappel, J.N. Kittinger, K. McCoy, A. Norström, M. Nyström, **K.L.L. Oleson**, K.A. Stamoulis, C. White, K.A. Selkoe (2018). Advancing the integration of spatial data to map human and natural drivers on coral reefs. *PLoS One* 13(3): e0189792 (%: 10; 10; 10; 10; 10) (3.240) (44)
- Weijerman, M., L. Veazey, S. Yee, K. Vaché, J.D. Delevaux, M. Donovan, K. Falinski, J. Lecky, **K.L.L. Oleson** (2018). Managing local stressors for coral reef condition and ecosystem services delivery under climate scenarios. *Frontiers in Marine Science* 5(2018):425. (%: 60; 20; 20; 30; 30) (4.912) (11)
- Grafeld, S., **K.L.L. Oleson**, L. Teneva, J.N. Kittinger (2017). Follow that fish: Uncovering the hidden blue economy in coral reef fisheries. *PLoS One* 12(8): e0182104. (%: 30; 20; 30; 30; 30) (3.240) (39)
- Oleson, K.L.L.**, K.A. Falinski, J. Lecky, C. Rowe, C.V. Kappel, K.A. Selkoe, C. White (2017). Upstream solutions to coral reef conservation: smart and cooperative decision-making pays off. *Journal of Environmental Management* 191:8-18. (%: 70; 40; 60; 60; 60) (6.789) (26)
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- Grafeld, S., **K.L.L. Oleson**, M. Barnes, M. Peng, C. Chan, M. Weijerman (2016). Divers willingness to pay for improved coral reef conditions in Guam: An untapped source of funding for management and conservation? *Ecological Economics* 128:202-213. (%: 60, 5; 20; 30; 40) (5.389) (36)
- Ratsimbazafy, H., **K.L.L. Oleson**, R. Roy, A. Harris (2016). Fishing site mapping using local knowledge provides accurate and satisfactory results: Case study of octopus fisheries in Madagascar. *Western Indian Ocean Journal of Marine Science* 15(2):1-7. (%: 50, 30, 20, 20, 0) (nd) (5)

- Weijerman, M., C. Grace-McCaskey, S. Grafeld, D. Kotowicz, **K.L.L. Oleson**, I. van Putten (2016). Towards an ecosystem-based approach of Guam's coral reefs: the human dimension. *Marine Policy* 63:8-17. (%: 10; 10; 15; 15; 15) (4.173) (14)
- Barnes-Mauthe*, M., **K.L.L. Oleson***, L.M. Brander, B. Zafindrasilivonona, T.A. Oliver, P. van Beukering (2015). Social capital as an ecosystem service: Evidence from a locally managed area. *Ecosystem Services* 16:283-293. (%: 90; 80; 30; 30; 40) (5.454) (51)
- Bremer, L. L., J.M.S. Delevaux, J.J.K. Leary, L.J. Cox, **K.L.L. Oleson** (2015). Opportunities and strategies to incorporate ecosystem services knowledge and decision support tools into planning and decision making in Hawai'i. *Environmental Management* 55(4):884-899. (%: 80; 33; 20; 40; 40) (3.266) (33)
- Kittinger, J.N., L. Teneva, H. Koike, K. Stamoulis, D.S. Kittinger, **K.L.L. Oleson**, E. Conklin, M. Gomes, B. Wilcox, A. Friedlander (2015). From reef to table: social and ecological factors affecting coral reef fisheries, artisanal seafood supply chains, and seafood security. *PLoS One* 10(8):e0123856. (%: 15; 10; 10; 10; 10) (3.240) (91)
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- Oleson, K.L.L.***, M. Barnes-Mauthe*, L. M. Brander, T. A. Oliver, I. van Beek, B. Zafindrasilivonona, P. van Beukering (2015). Cultural bequest values for ecosystem service flows among indigenous fishers: A discrete choice experiment validated with mixed methods. *Ecological Economics* 114:104-116. (%: 90; 80; 30; 40; 40) (5.389) (86)
- Oliver, T.A.* , **K.L.L. Oleson***, H. Ratsimbazafy, D. Raberinary, S. Benbow, A. Harris (2015). Positive catch and economic benefits of periodic octopus fishery closures: Do effective, narrowly targeted actions 'catalyze' broader management? *PLoS One* 10(6):e0129075. (%: 50; 30; 30; 30; 40) (3.240) (53)
- Benbow, S., F. Humber, T. Oliver, **K.L.L. Oleson**, D. Raberinary, M. Nadon, H. Ratsimbazafy, A. Harris (2014). Lessons learnt from experimental temporary octopus fishing closures in southwest Madagascar: benefits of concurrent closures. *African Journal of Marine Science* 36(1):31-37. (%: 30; 30; 15; 25; 25) (nd) (45)
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- Tallis, H., J. Lubchenco, ..., **K.L.L. Oleson**, et al. (2014). A call for inclusive conservation. *Nature* 514:27-28. (%: 0; 0; 0; 2; 2) (49.962)
- Arrow, K., P. Dasgupta, L. Goulder, K. Mumford, **K.L.L. Oleson** (2013). Sustainability and the measurement of wealth: Further reflections. *Environment and Development Economics* 18:504-516. (%: 15; 30; 30; 20; 15) (1.939) (69)
- Barnes-Mauthe*, M., **K.L.L. Oleson***, B. Zafindrasilivonona (2013). A total economic valuation of small-scale fisheries and characterization of post-landings trends. *Fisheries Research* 147:175-185. (%: 90; 80; 30; 40; 40) (2.422) (147)
- Gardner, C., M.E. Nicholl, T. Mbohoahy, **K.L.L. Oleson**, A.N. Ratsifandrihamanana, J. Ratsirarson, L.R. de Roland, M. Virah-Sawmy, B. Zafindrasilivonona, Z.G. Davies (2013). Protected areas for conservation and poverty alleviation: experiences from Madagascar. *Journal of Applied Ecology* 50(6):1289-1294. (%: 10; 10; 10; 10; 10) (6.528) (77)
- Westerman, K., **K.L.L. Oleson**, A. Harris (2013). Building socio-ecological resilience to climate change through community-based coastal conservation and development: Experiences in southern Madagascar. *Western Indian Ocean Journal of Marine Science* 11(1): 87-97. (%: 33; 33; 33; 33; 20) (22)

- Arrow, K., P. Dasgupta, L. Goulder, K. Mumford, **K.L.L. Oleson** (2012). Sustainability and the measurement of wealth. *Environment and Development Economics* 17(3): 317-353. (%: 15; 50; 50; 20; 20) (1.939) (733)
- Oleson, K.L.L.** (2011). Shaky foundations and sustainable exploiters: Problems with using national sustainability measures in a transnational era. *Journal of Environment and Development* 20(3): 329-349. (2.097) (12)
- Khagram, S., K. Cahill, D. MacMynowski, J. Warren, E. Richards, **K.L.L. Oleson**, J. Kitzes, R. Katz, R. Hwang, R. Goldman, J. Funk, K. Brauman (2010). Thinking about knowing: Intellectual foundations for interdisciplinary research. *Environmental Conservation* 37(4):388. (3.012) (62)
- Burke, M., **K.L.L. Oleson**, E. McCullough, J. Gaskell (2009). A global model tracking water, nitrogen, and land inputs and virtual transfers from industrialized meat production and trade. *Environmental Modeling and Assessment*, 14(2):179. (2.333) (36)
- Oleson, K.L.L.**, L. Hartzell, M. Mastrandrea (2009). The baker's dozen: Key nations can and should act together to prevent further dangerous climate change. *Intergenerational Justice Review*, 9(3):106. (3)
- Galloway, J., M. Burke, E. Bradford, W. Falcon, J. Gaskell, E. McCullough, H. Mooney, R. Naylor, **K.L.L. Oleson**, V. Smil, H. Steinfeld, T. Wassenaar (2007). International trade in meat. *Ambio*, 36(8). (5.129) (247)

Book chapters

- Finkbeiner, E.M., **K.L.L. Oleson**, J.T. Kittinger (2017). Social resilience in the Anthropocene ocean. In *Conservation for the Anthropocene ocean*. P. Levin and M. Poe (Eds.). Amsterdam:Elsevier. (4)
- Oleson, K.L.L.**, **K. Falinski**, L. Teneva, S.J. Pittman (2017). Linking landscape and seascape conditions: Science, tools, and management. In *Seascape Ecology: Taking landscape ecology into the sea*, S.J. Pittman (Ed.). West Sussex:Wiley. (%: 80; 40; 40; 60; 60)
- Munoz, P., E. Darkey, L. Pearson, **K.L.L. Oleson**, K. Mumford (2012). Chapter 4: Key findings. In *Inclusive Wealth Report 2012*. P. Dasgupta, A. Duraiappah, P. Munoz (Eds.). Cambridge UK: Cambridge University Press. This report was submitted to RIO+20 Conference on Sustainable Development.
- Arrow, K.J., P. Dasgupta, L. Goulder, K.J. Mumford, **K.L.L. Oleson** (2010). China, the U.S., and Sustainability: Perspectives Based on Comprehensive Wealth. In G. Heal (Ed.), *Is Economic Growth Sustainable?* International Economics Association, Volume 148, London:Palgrave Macmillan.
- Oleson, K.L.L.** (2008). Integrating the environment into economics in China – A focus on exports. In E. Au, K. Lam, T. Zhu, M. Partidario (Eds.), *International Experience on Strategic Environmental Assessment*, Dept. Geog. and Resource Mgmt., The Chinese University of Hong Kong, Hong Kong:China.

Refereed technical reports

- Gove J.M., J.A. Maynard, J. Lecky, D. Tracey, M. Allen, G.P. Asner, C. Conklin, C. Couch, K. Hum, R. Ingram, T. Kidinger, K. Leong, **K.L.L. Oleson**, E. Towle, R. van Hoozonk, G.J. Williams, and J. Hospital (2022). Integrated Ecosystem Assessment Ecosystem Status Report for Hawaii. Pacific Islands Fisheries Science Center, PIFSC Special Publication, SP-2X-XXXX, XXp. doi:xx
- Iwane M.A.**, K. Leong, M. Vaughan, **K.L.L. Oleson** (2019). Engaging Hawai'i small boat fishers to mitigate pelagic shark mortality. NOAA Admin Rep. H-20-10, 113 p. doi:10.25923/54tf-kh65. Available at: <https://repository.library.noaa.gov/view/noaa/27821>
- Brainard, R., E. Conklin, D. Delaney, W. Duke, K. Falinski, E. Geiger, T. Grabowski, R. Hall, A. Heenan, E. Heinen De Carlo, J. Kimball, H. Koike, M. Lameier, A. Levine, P. Maurin, R. Minato, **K. Oleson**, T. Oliver, F. Parrish, B. Richmond, E. Schemmel, B. Schroeder, D. Swanson, L. Teneva, M. Timmers, R. Uchimura, B. Vargas-Angel, I. Williams, & C. Young (2018). Coral reef condition: A status report for the Hawaiian

- archipelago. NOAA. Available at:
https://www.coris.noaa.gov/monitoring/status_report/docs/Hawaii_status_report_forweb.pdf
- Gove, J., J. Polovina, W. Walsh, A. Heenan, I.D. Williams, L. Wedding, R.J. Ingram, J. Lecky, **K.L.L. Oleson**, H. Walecka, S. Heron, C.S. Couch, E.J. Howell (2016). West Hawai'i Integrated Ecosystem Assessment: Ecosystem Trends and Status Report 2016. NOAA Technical Memorandum
- Grafeld, S., **K.L.L. Oleson** (2016). A value chain analysis for Hawai'i's commercial nearshore fishery. Report to Conservation International Hawai'i Program
- Maynard, J., B. Parker, R. Beeden, J. Tamelander, P. McGowan, L. Gramer, S. Heron, M. Kendall, S. McKagan, E. McLeod, **K.L.L. Oleson**, S. Pittman (2015). Coral Reef Resilience Research and Management – Past, Present and Future: Workshop Report. NOAA Technical Memorandum CRCP 20. 47pp. doi:10.7289/V5VQ30M9
- Ostergaard-Klem, R., **K.L.L. Oleson** (2015). The tie between invasive species and the economy. Hawai'i State Environmental Council's Annual Report
- Oleson, K.L.L.**, K. Falinski, M. Peng (2014). Managing for multiple ecosystem services with changing land use in West Maui. Water Resources Research Center, Honolulu, HI
http://water.usgs.gov/wrri/AnnualReports/2014/FY2014_HI_Annual_Report.pdf
- Ostergaard-Klem, R., **K.L.L. Oleson** (2014). Presenting the genuine progress indicator baseline. Hawai'i State Environmental Council's Annual Report
- Le Manach, F., C. Andrianaivojaona, **K.L.L. Oleson**, A. Clausen, G.-M. Lange (2013). Natural capital accounting and management of the Malagasy fisheries sector: A technical case study for the WAVES global partnership in Madagascar. World Bank
- Oleson, K.L.L.** (2013). Cost-benefit analysis of freshwater security options for Republic of the Marshall Islands being considered under Pacific Adaptation to Climate Change project. Report submitted to Secretariat of the Pacific Regional Environmental Program
- Ostergaard-Klem, R., **K.L.L. Oleson** (2013). Introducing the Genuine Progress Indicator to Hawaii. Hawai'i State Environmental Council's Annual Report.
- Oleson, K.L.L.** (2011). Taking an ecosystem service perspective in Velondriake Locally Managed Marine Area. Case study for The Economics of Ecosystems and Biodiversity (TEEB) Global Atlas.

Technical reports, manager reports, working papers

- PICRC, Stanford Center for Ocean Solutions, Expert Working Group (2019). Palau's National Marine Sanctuary: Managing ocean change and supporting food security. Expert working group report.
<https://oceansolutions.stanford.edu/pnms-report>
- Babcock, R., **K.L.L. Oleson**, M. Barnes, A. Fung, J.W. Goodell (2019). Upcountry Maui Cesspool Upgrade Investigation Report. Report submitted to the Hawai'i Department of Health.
- Oleson K.L.L.**, R. Dacks, S. Lewis (2019). *Final Report Palau National Marine Sanctuary – Socioeconomic baseline project*. PICRC Technical Report 19-07 Palau International Coral Reef Center. Koror, Palau.
<http://picrc.org/picrcpage/wp-content/uploads/2019/05/Oleson-PNMS-Socioeconomic-2019-2.pdf>
- Palau International Coral Reef Center and the Stanford Center for Ocean Solutions (2019). Palau's National Marine Sanctuary: Managing ocean change and supporting food security." Expert working group report submitted to PICRC. Available at:
<http://picrc.org/picrcpage/palau-nationalmarine-sanctuary> and
<https://oceansolutions.stanford.edu/pnms-report>
- Selkoe, K., **K.L.L. Oleson**, J.W. Goodell (2018). Ocean Tipping Points Hawai'i project internal report to managers
- Koike, H., A. Friedlander, **K. Oleson**, S. Koshiba, K. Polloi (2014). Final Report on Diver's Perception Survey for Palau's Kemedukl and Maml: Stock Assessment for Humphead Wrasse and Bumphead Parrotfish. Koror, Palau. PICRC Technical Report 14–02. Palau International Coral Reef Center.

http://picrc.org/picrcpage/wp-content/uploads/2016/01/WTP_Survey_For_Maml_Kemedukl_FINAL.pdf

Barnes-Mauthe, M., K.L.L. Oleson (2013). Economically Valuable. SAMUDRA Report, Issue No. 66: International Collective in Support of Fishworkers. <http://www.icsf.net/es/samudra/detail/EN/3940.html>

Data releases

Oleson, K.L.L., K.J. Bagstad, **C. Fezzi**, **M.D. Barnes**, **M.K. Donovan**, **K.A. Falinski**, K.D. Gorospe, **H. Htun**, **J. Lecky**, F. Villa, **T. Wong** (2020). Data release for Linking land and sea through an ecological-economic model of coral reef recreation: U.S. Geological Survey data release, <https://doi.org/10.5066/P9RO57E8>

LEADERSHIP

United Nations Global Coral Reef Fund	2022 – present
Advisory Board Member	
5th National Climate Assessment	2021 – present
Pacific Islands Region Chapter Author	
The Pew Charitable Trusts	2021 – 2024
Pew Marine Conservation Fellow	
National Center for Ecological Analysis and Synthesis/Palau International Coral Reef Center/Stanford University/Future Earth	2019
Expert Working Group: Managing ocean change and food security	
US Geological Survey (USGS) Powell Center for Analysis and Synthesis/National Socio-Environmental Synthesis Center	2016 – 2020
Building green national accounts for the U.S.	

SERVICE

Community

Global Ocean Accounts Partnership, Technical Panel Member	2023 – current
United Nations Development Program Global Fund for Coral Reefs, Scientific Advisory Group	
	2021 – current
5th National Climate Assessment, Pacific Islands Region Chapter Author	2021 – current
Blue Forest Science Advisor	2020 – current
Palau National Marine Sanctuary, Science and Monitoring Plan Advisory Committee	2022
Division of Aquatic Resources 30x30 Scientific Committee	2018 – current
NOAA Pacific Island Fisheries Science Center program review, External reviewer	2018
Hawai'i State Environmental Council, Annual report co-author	2012 – 2017
West Maui Ridge-to-Reef Initiative, Researcher and science advisor	2012 – 2018
Hawai'i Green Growth Initiative, Metrics Committee	2013 – 2016
NOAA Coral Reef Conservation Program, Resilience partner	2014 – 2017
Blue Ventures Conservation Madagascar, Socio-economic advisor	2009 – current

Academic

Board Member (At-large)	2014 – 2017
United States Society for Ecological Economics	
Peer Reviewer	2008 – current
Applied Ecology, Coastal Management, Conservation Letters, Contemporary Pacific, Ecological Economics, Ecological Economics Reviews, Ecological Indicators, Ecology and Society, Ecosystem	

Services, Ecosystems, Environment and Development Economics, Environmental Modeling and Software, Environmental Systems and Decisions, Environmental Values, Fish and Fisheries, Forest Ecology and Management, Frontiers in Marine Science, Geoforum, Inclusive Wealth Report, International Journal of Sustainable Development and World Ecology, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Water Resources Planning and Management, Madagascar Conservation and Development, Marine Ecology Progress Series, Marine Policy, Marine Pollution Bulletin, Nature Sustainability, Nature Communications, NOAA-Pacific Island Fisheries Science Center, PeerJ, PLoS Biology, PLoS One, Proceedings of the National Academy of Sciences, United Nations Inclusive Wealth Report, US Environmental Protection Agency, Water, Western Indian Ocean Journal of Marine Science

Proposal Reviewer

National Science Foundation (CNH2, DISES)	2020, 2021
PICASC	2021
Social Science and Humanities Research Council of Canada	2015
US National Science Foundation (Arctic Observing Network)	2015

Scientific Evaluation Conference Committee

International Coral Reef Symposium, Bremen, Germany	2021
Hawai'i Conservation Conference, Honolulu, HI	2018
US Society for Ecological Economics Annual Conference. Minneapolis, MN	2017
International Coral Reef Symposium, Honolulu, HI	2016

Professional Memberships

American Association for the Advancement of Sciences
 American Geophysical Union
 Association for Environmental and Resource Economics
 International Coral Reef Society
 International Society for Ecological Economics
 Society for Conservation Biology
 US Society for Ecological Economics

University

University of Hawai'i at Mānoa

University-wide

Water Resources Research Center. Affiliate faculty	2015 – current
University of Hawai'i Economic Research Organization. Affiliate faculty	2015 – current
Ad hoc tenure and promotion review committee	2020
Chancellor's Working Group on Sustainability (Graduate curriculum)	2013 – 2016
Tester's student research symposium judge	2014

College of Tropical Agriculture and Human Resources

Annual student symposium judge	2012, 2013, 2014, 2015
Faculty senate	2015 – current
Future of Food speaker series committee	2015

NREM Department

Graduate program chair	2018 – 2021
Graduate committee	2012
Curriculum committee (Chair for 2015)	2012 – 2015
NREM visioning committee	2012
Applied economist search committee (Chair)	2019, 2020
Environmental social scientist search committee	2020
Wildlife committee (Co-chair)	2015

Fiscal officer personnel search committee	2015
Soil Science personnel search committee	2013

TRAINING

Decision Analysis Certification Program – Natl. Conservation Training Center	2016 – 2022
Reproducible Research Techniques for Synthesis – NCEAS, online	2021
NVIVO – Stanford University, online	2020
QGIS – Wildlife Conservation Society, online	2020
R – National Conservation Training Center, online	2020
Teaching Socio-Environmental Synthesis with Case Studies – SESYNC, Annapolis, MD	2015
Structural Equation Modeling – J.B. Grace, Honolulu, HI	2015
Bayesian Modeling – Social Environmental Synthesis Center (SESYNC), Annapolis, MD	2015
Climate Smart Design – National Oceanic & Atmospheric Administration (NOAA) Honolulu, HI	2014
Artificial Intelligence for Ecosystem Services – Basque Centre for Climate Change, Spain	2013
Foreign languages: Dutch (fluent), Spanish (proficient), French (proficient)	

SCOTT Q. TURN

Present Position

Researcher, Hawaii Natural Energy Institute, University of Hawaii
Graduate Faculty, Department of Bioengineering, University of Hawaii
Graduate Faculty, Department of Mechanical Engineering, University of Hawaii

Research Interests

Research interests include biomass resource assessment, thermochemical biomass conversion, processing of biomass materials to enhance fuel properties, analysis of biomass energy systems, evaluation of public policy to support biomass based energy systems development.

Education

Ph.D., Biological and Agricultural Engineering, University of California, Davis, 1994
M.S., Agricultural Engineering, University of Hawaii, 1985
B.S., Agricultural Engineering, The Pennsylvania State University, 1983

Employment

2009-Present	Researcher, Hawaii Natural Energy Institute, University of Hawaii
2001-2009	Associate Researcher, Hawaii Natural Energy Institute, University of Hawaii
1995-2001	Assistant Researcher, Hawaii Natural Energy Institute, University of Hawaii
1999-2001	Assistant Researcher, Biosystems Engineering Department, University of Hawaii (50% FTE)
1997	Lecturer, Department of Biosystems Engineering, University of Hawaii
1994-1995	Research Associate, Hawaii Natural Energy Institute, University of Hawaii
1986 -1994	Graduate Research Assistant/Post-Graduate Researcher/Teaching Assistant, Department of Biological and Agricultural Engineering, University of California
1986	Project Associate, Department of Agricultural Engineering, The Pennsylvania State University
1983-1985	Graduate Research Assistant, Department of Agricultural Engineering, University of Hawaii

Professional Experience

2015 to present. Established research program to investigate alternative jet fuel production pathways from tropical biomass resources under the Aviation Sustainability Center of Excellence Program of the FAA (Funding: Federal Aviation Administration, State of Hawaii)

2015 to present. Principal investigator on project for high yield charcoal production and pressurized pyrolysis for waste management (Funding: SINTEF, ONR)

2012 to present. Established research program to investigate storage stability of second generation biofuels and their blends with petroleum legacy fuels (ONR)

- 1995-present. Established research program to investigate fluidized bed gasification of tropical biomass materials. Activities included establishing analytical methods to quantify gas quality, gas yield, contaminants (permanent gas, condensed phase, heavy metals), and ash behavior, developing and evaluation contaminant control technologies, and producing data to inform process design (Funding USDOE, ClearFuels Technology, State of Hawaii, Office of Naval Research (ONR), FAA)
- 1996 to present. Established research program to develop methods to improve thermochemical properties of tropical biomass materials by modifying inorganic content and composition (Funding National Renewable Energy Laboratory, USDOE, Waialua Sugar Company)
- 2006 to 2019. Established research program to investigate reforming technologies and energy carriers (crude glycerin, LPG, methane, hydrotreated renewable diesel, landfill gas) for onsite production of hydrogen. Activities included establishing analytical methods to quantify reformat quality, reformat yield, effects of fuel contaminants, and producing data to inform process design (Funding ONR)
- 2008 to 2013. Directed the Center for Bioenergy Research and Development, funded through the National Science Foundation's Industry/University Cooperative Research Center program. Projects included net energy assessment of eucalyptus plantations, assessment of soil carbon changes resulting from land use conversion from pastures to eucalyptus plantation, unit operations for algae processing, and fuel processing methods for fast growing tropical grasses. (Funding NSF, Hawaii Bioenergy, Sun Fuels, ONR, State of Hawaii, Faraday Technology Inc.)
- 2009-2010. Managed the Hawaii Bioenergy Master Plan project to develop roadmap for producing 20% of Hawaii's electricity and ground transportation fuels from biomass resources. Conducted stakeholder meetings, selected subcontractors, and authored the master plan report. (Funding State of Hawaii and USDOE)
- 2007. Developed guidelines for mass carcass disposal in the event of a foreign animal disease outbreak in Hawaii (Funding USDA via HIDoA)
- 2006-2007. Conducted assessment of ethanol production potential in Hawaii based on sugarcane, banagrass, eucalyptus, and leucaena feedstocks. (Funding State of Hawaii)
- 2005. Participant in plantation-wide energy assessment of Hawaiian Commercial & Sugar Co. Responsible for boiler efficiency study and steam utilization improvements in the sugar factory. (Funding USDOE Office of Industrial Technology)
- 2005. Conducted assessment of dedicated biomass fueled power plant for the Maui central valley for HECO integrated resource planning process (Funding HECO via Black & Veatch)
- 2004-2005. Conducted assessment of food waste generation in the State of Hawaii by conducting survey of more than 5,000 licensed food establishments. (Funding USDA via HIDoA)

- 2004. Conducted study to assess potential biofuel to displace fossil fuel use in existing units of Hawaiian Electric Company (Oahu), and its subsidiaries, Maui Electric Company, Ltd. (Maui, Lanai, and Molokai) and Hawaii Electric Light Company, Inc. (Hawaii) (Funding Hawaiian Electric Co.)
- 2004. Conducted assessment of dedicated biomass fueled power plant for the Ka'u district of Hawaii island for HECO integrated resource planning process (Funding HECO via Black & Veatch)
- 2002. Conducted assessment of fiber resources from production of sugarcane, nut crops, and switch grass in the U.S., India, and Brazil (Funding USDOE Hydrogen Program via Gas Technology Institute)
- 2002. Conducted biomass resource assessment (agricultural, urban, forestry) for the State of Hawaii (Funding State of Hawaii)
- 2001-2002. Participant in project to demonstrate cofiring of energy cane with coal in sugar factory boiler. Responsible for pilot scale processing of energy cane to inform process design and instrumenting boilers with probes to characterize ash deposition from bagasse, coal, and cofired energy cane and coal. (Funding USDOE)
- 1994-1997. Participated in the 100 Mg per day demonstration project of sugarcane bagasse gasification at the Paia Sugar Factory of the Hawaiian Commercial & Sugar Co. on Maui. Conducted gasification process monitoring to provide data to evaluate system performance and wrote summary report. (Funding U.S. Dept. of Energy (USDOE), Pacific Center for High Technology Research, State of Hawaii)

Professional Affiliations

American Chemical Society
 American Society of Agricultural and Biological Engineering
 Council on Forest Engineering
 Hawai'i Forest Industries Association

Consultancy

Winrock International (1998)
 ClearFuel Technologies (2007)
 Antares Group (2007)
 State of Hawai'i Department of Taxation (2007-2009)
 Hawaii BioEnergy Biorefinery Co (2015)

Publications in international or national refereed journals

- Johnson, R.L., K. Castillo, C. Castillo, C. Hihara, Q.V. Bach, L. Wang, Ø. Skreiberg, and S. Q. Turn. 2023. Biocarbon production via plasticized biochar: role of feedstock, water content, catalysts, and reaction time. *Energy & Fuel*. 37, 15808–15821.
- Fu, J., P.K. Le, and S. Turn. 2023. Impacts of antioxidants on stability of biodiesel derived from waste frying oil. *Biofuels, Bioproducts & Biorefining*.
<https://doi.org/10.1002/bbb.2546>
- Wang, L., Ø. Skreiberg, N. Smith-Hanssen, S. Jayakumari, S. Rørvik, G. Jahrsengene, and S. Turn. 2023. Investigation of gasification reactivity and properties of biocarbon at high temperature in a mixture of CO/CO₂. *Fuel*. 346, 15, 128233.
- Johnson, R.L., K. Castillo, C. Castillo, L. Wang, Ø. Skreiberg, and S. Q. Turn. 2023. Use of plasticized biochar intermediate for producing biocarbons with improved mechanical properties. *Sustainable Chemistry & Engineering*.
<https://doi.org/10.1021/acssuschemeng.2c05229>
- Fu, J., S. Weber, and S.Q. Turn. 2023. Comprehensive characterization of kukui nuts as feedstock for energy production in Hawai'i. *ACS Omega*. 8, 22567-22574.
- Turn, S.Q., R.B. Williams, and W.Y. Chan. 2022. Resources for renewable natural gas production: A Hawai'i case study. *Environmental Progress & Sustainable Energy*. e14002. <https://doi.org/10.1002/ep.14002>.
- Wells, J.M. S.E. Crow, S.K. Khanal, and S.Q. Turn. 2022. Lignin chemical controls on bioconversion of tropically grown C4 grasses to biofuels and biobased products. *Bioresource Technology Reports*. 18, 101015.
- Bach, Q.V., J. Fu, and S. Turn. 2021. Fuel characterization of construction and demolition wastes as a potential feedstock for sustainable aviation fuels. *Frontiers in Energy Research*, 9, 711808.
- Wantaneeyakul, N., K. Kositkanawuth, S.Q. Turn, and J. Fu. 2021. Investigation of biochar production from copyrolysis of rice husk and plastic. *ACS Omega*, 6, 28890-28902.
- Fu, J., G. Allen, S. Weber S.Q. Turn, and W. Kusch. 2021. Water leaching for improving fuel properties of pongamia pod: Informing process design. *Fuel*. 305, 121480.
<https://doi.org/10.1016/j.fuel.2021.121480>
- Fu, J., S. Summers, S.Q. Turn, and W. Kusch. 2021. Upgraded pongamia pod via torrefaction for the production of bioenergy. *Fuel*. 291, 120260.
<https://doi.org/10.1016/j.fuel.2021.120260>

- Wells, J.M., S.E. Crow, S.K. Khanal, S. Turn, A. Hashimoto, J. Kiniry, and N. Meki. 2021. Anaerobic digestion and hot water pretreatment of tropically grown C4 energy grasses: Mass, carbon, and energy conversions from field biomass to fuels. *Agronomy*, 11, 838.
- Fu, J., S. Summers, T.J. Morgan, S.Q. Turn, and W. Kusch. 2021. Fuel properties of pongamia (*Milletia pinnata*) seeds and pods grown in Hawaii. *ACS Omega*. 6, 9222-9233. <https://doi.org/10.1021/acsomega.1c00635>.
- Mousavi, S.M.A., W. Piavis, and S. Turn. 2019. Reforming of biogas using a non-thermal, gliding-arc, plasma in reverse vortex flow and fate of hydrogen sulfide contaminants. *Fuel Processing Technology*. 193, pp 378-391.
- Legarra, M., T. Morgan, S. Turn, L. Wang, O. Skreiberg, and M. Antal. 2019. Effect of processing conditions on the constant-volume carbonization of biomass. *Energy & Fuels*. 33, pp 2219-2235.
- Morgan, T., A. Youkhana, S. Turn, R. Ogoshi, and M. Garcia-Perez. 2019. Review of biomass resources and conversion technologies for alternative jet fuel production in Hawai'i and tropical regions. *Energy & Fuels*. 33, 2699-2762.
- Fu, J. and S. Turn. 2019. Characteristics and stability of biofuels used as drop-in replacement for NATO marine diesel. *Fuel*. 236. pp 516-524.
- Cui, H. and S. Turn. 2018. Fuel properties and steam reactivity of solid waste from contingency bases. *Waste Management*. 78. pp 16-30.
- Fu, J. and S. Turn. 2018. Effects of aromatic fluids on properties and stability of alternative marine diesels. *Fuel*. 216. pp 171-180.
- Legarra, M., T. Morgan, S. Turn, L. Wang, O. Skreiberg, and M. Antal. 2018. Carbonization of biomass in constant-volume reactors. *Energy & Fuels*. 32(1), pp 475-489.
- Morgan, T.J., L.K. Andersen, S.Q. Turn, H. Cui, and D. Li. 2017. XRF analysis of water pretreated/leached banagrass to determine the effect of temperature, time, and particle size on the removal of inorganic elements. *Energy & Fuels*. 31(8), pp 8245-8255.
- Cui, H., S.Q. Turn, T.J. Morgan, and D. Li. 2017. Processing freshly harvested banagrass to improve fuel qualities: Effects of operating parameters. *Biomass & Bioenergy*. 105. pp. 310-319.

- Fu, J., B.T.B Hue, and S.Q. Turn. 2017. Oxidation stability of biodiesel derived from waste catfish oil. *Fuel*. 202. pp. 455-463.
- Crow, S., M. Reeves, S. Turn, S. Taniguchi, O. Schubert, N. Koch. 2016. Carbon balance implications of land use change from pasture to managed eucalyptus forest in Hawaii. *Carbon Management*.
<http://dx.doi.org/10.1080/17583004.2016.1213140>.
- Fu, J., S.Q. Turn, B. Takushi, and C. Kawamata. 2016. Storage and oxidation stabilities of biodiesel derived from waste cooking oil. *Fuel*. 167(1) pp. 89-97.
- Morgan, T.J., S.Q. Turn, N. Sun, and A. George. 2016. Fast pyrolysis of tropical biomass species and influence of water pretreatment on product distributions. *PLoS ONE*, <http://dx.doi.org/10.1371/journal.pone.0151368>
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- Nurunnabi, M.D. and S.Q. Turn. 2015. Characterization of Ru/Q10 catalysts containing Zr or Mn and their activity for Fischer-Tropsch synthesis. *Fuel Processing Technology*. 138, pp. 490-499.
- Piavis, W., S.Q. Turn, and S. Mousavi. 2015. Non-thermal gliding-arc plasma reforming of dodecane and hydroprocessed renewable diesel. *International Journal of Hydrogen Energy*. 40(39), pp. 13295-13305.
- Fu, J. and S.Q. Turn. 2015. Effects of biodiesel contamination on oxidation and storage stability of neat and blended hydroprocessed renewable diesel. *Energy & Fuels*, 29(8), pp. 5176-5186.
- Morgan, T.J., S.Q. Turn, and A. George. 2015. Fast pyrolysis behavior of banagrass as a function of temperature and volatiles residence time in a fluidized bed reactor. *PLoS ONE* 10(8): e0136511. doi:10.1371/journal.pone.0136511
- Cui, H., S.Q. Turn, T. Tran, and D. Rogers. 2015. Mechanical dewatering and water leaching pretreatment of fresh banagrass, guinea grass, energy cane, and sugar cane: Characterization of fuel properties and byproduct streams. *Fuel Processing Technology*. 139, pp. 159-172.
- Nurunnabi, M.D. and S.Q. Turn. 2015. Pore size effects on Ru/SiO₂ catalysts with Mn and Zr promoters for Fischer-Tropsch synthesis. *Fuel Processing Technology*. 130, pp. 155-164.

- Fu, J. and S.Q. Turn. 2014. Characteristics and stability of neat and blended hydroprocessed renewable diesel. *Energy & Fuels*. 28, pp. 3899-3907.
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- Turn, S.Q., L. Smith, N. Koch, and S. Taniguchi. 2014. Energy analysis of Eucalyptus grandis production in Hawaii. *Journal of Sustainable and Renewable Energy*. 6, pp 043104-1 to 13. doi: 10.1063/1.4885119
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- Piavis, W. and S. Turn. 2012. An experimental investigation of reverse vortex flow plasma reforming of methane. *International Journal of Hydrogen Energy*. 37, pp. 17078-17092.
- Cui, H., S.Q. Turn, V. Keffer, D. Evans, T. Tran, and M. Foley. 2010. Contaminant estimates and removal in product gas from biomass steam gasification. *Energy & Fuels*. 24, pp. 1222-1233.
- Reese, M., S.Q. Turn, and H. Cui. 2010. Kinetic modeling of high pressure autothermal reforming. *Journal of Power Sources*. 195(2), pp. 553-558
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- Cui, H., S.Q. Turn, and M.A. Reese. 2009. Removal of sulfur compounds from utility pipelined synthetic natural gas using modified activated carbons. *Catalysis Today*. 139(4), pp. 274-279.
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- Cui, H., S.Q. Turn, and M.A. Reese. 2008. Adsorptive removal of tetrahydrothiophene (THT) from synthetic natural gas on modified activated carbons. *Energy & Fuels*. 22(4), pp. 2550-2558.
- Turn, S.Q. 2007. Chemical equilibrium prediction of K, Na, and Cl concentration in the product gas from biomass gasification. *Industrial & Engineering Chemistry Research*. 46, pp. 8928-8937.
- Douette, A., S.Q. Turn, W. Wang, and V. Keffer. 2007. An experimental investigation of hydrogen production from glycerin reforming. *Energy & Fuels*. 21, pp. 3499-3504.
- Turn, S.Q., V. Keffer, C.M. Kinoshita, and L.A. Jakeway. 2007. Efficiency evaluation of sugar factory steam generating units. *International Sugar Journal*. 109(1304), pp. 490-498.
- Wang, W., S.Q. Turn, V. Keffer, and A. Douette. 2007. Study of process data in autothermal reforming of LPG using multivariate data analysis. *Chemical Engineering Journal*. 129, pp. 11-19.
- Turn, S.Q., B.M. Jenkins, L.A. Jakeway, L.G. Blevins, R.B. Williams, G. Rubenstein, C.M. Kinoshita. 2006. Test results from sugar cane bagasse and high fiber cane co-fired with fossil fuels. *Biomass and Bioenergy*. 30, pp. 565-574.
- Turn, S.Q., C.M. Kinoshita, L.A. Jakeway, B.M. Jenkins, L.L. Baxter, B.C. Wu, L.G. Blevins. 2003. Fuel characteristics of processed, high-fiber, sugar cane. *Fuel Processing Technology*. 81(1), pp. 35-55.
- Kinoshita, C.M. and S.Q. Turn. 2003. Production of hydrogen from bio-oil using CaO as a CO₂ sorbent. *International Journal of Hydrogen Energy*. 28(10), pp. 1065-1071.
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- Turn, S.Q., C.M. Kinoshita, D.M. Ishimura, J. Zhou, T.T. Hiraki, and S.M. Masutani. 2001. An experimental investigation of alkali removal from biomass producer gas using a fixed bed of solid sorbent. *Industrial & Engineering Chemistry Research*. 40(8); pp. 1960-1967.

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- Dayton, D.C., B.M. Jenkins, S.Q. Turn, R.R. Bakker, R.B. Williams, D. Belle-Oudry, and L.M. Hill. 1999. Release of inorganic constituents from leached biomass during thermal conversion. *Energy and Fuel* 13(4), pp. 860-870.
- Turn, S.Q. 1999. Biomass integrated gasifier combined cycle technology: Application in the cane sugar industry, Part III, *International Sugar Journal* 101(1207), pp. 367-374.
- Turn, S.Q. 1999. Biomass integrated gasifier combined cycle technology: Application in the cane sugar industry, Part II, *International Sugar Journal*. 101(1206), pp. 316-322.
- Turn, S.Q. 1999. Biomass integrated gasifier combined cycle technology: Application in the cane sugar industry, Part I, *International Sugar Journal*. 101(1205), pp. 267-272.
- Ishimura, D.M., C.M. Kinoshita, S.M. Masutani, and S.Q. Turn. 1999. Cycle analyses of 5 and 20 MWe biomass gasifier-based electric power stations in Hawai'i. *Journal of Engineering for Gas Turbines and Power*. 121(1), pp. 25-30.
- Turn, S.Q., C.M. Kinoshita, D.M. Ishimura, J. Zhou, T.T. Hiraki, and S.M. Masutani. 1998. A review of sorbent materials for fixed bed alkali getter systems in biomass gasifier combined cycle power generation applications. *Journal of the Institute of Energy*. 71, pp. 163-177.
- Turn, S.Q., C.M. Kinoshita, Z. Zhang, D.M. Ishimura, and J. Zhou. 1998. An experimental investigation of hydrogen production from biomass gasification. *International Journal of Hydrogen Research*, 23(8), pp. 641-648.
- Turn, S.Q., C.M. Kinoshita, W.E. Kaar, and D.M. Ishimura. 1998. Measurement of gas phase carbon in steam explosion of biomass. *Bioresource Technology*. 64(1), pp.71-75.
- Turn, S.Q., C.M. Kinoshita, D.M. Ishimura, and J. Zhou. 1998. The fate of inorganic constituents of biomass in fluidized bed gasification. *Fuel* . 77(3), pp 135-146.
- Kinoshita, C.M., S.Q. Turn, R.P. Overend and R.L. Bain. 1997. Power generation potential of biomass gasification systems. *Journal of Energy Engineering*, 123(3), 88-99.

- Turn, S.Q., C.M. Kinoshita, and D.M. Ishimura. 1997. Removal of inorganic constituents of biomass feedstocks by mechanical dewatering and leaching. *Biomass and Bioenergy*. 12(4), pp. 241-252.
- Turn, S.Q., B.M. Jenkins, J.C. Chow, L.C. Pritchett, D. Campbell, T. Cahill and S.A. Whalen. 1997. Elemental characterization of particulate matter emitted from biomass burning: wind tunnel derived source profiles for herbaceous and wood fuels. *Journal of Geophysical Research, Atmospheres*. 102(D3):3683-3699.
- Jenkins, B.M., A.D. Jones, S.Q. Turn and R.B. Williams. 1996. Particle concentrations, gas-particle partitioning, and species intercorrelations for polycyclic aromatic hydrocarbons (PAH) emitted during biomass burning. *Atmospheric Environment*. (30)22:3825-3835.
- Jenkins, B.M., A.D. Jones, S.Q. Turn and R.B. Williams. 1996. Emission factors for polycyclic aromatic hydrocarbons (PAH) from biomass burning. *Environmental Science and Technology*. 30(8):2462-2469.
- Jenkins, B.M., I.M. Kennedy, S.Q. Turn, R.B. Williams, S.G. Hall, D.P.Y. Chang, O.G. Raabe, and S.V. Teague. 1993. Wind tunnel modeling of atmospheric emissions from agricultural burning: influence of operating configuration on flame structure and particle emission factor for a spreading type fire. *Environmental Science and Technology* 27(9):1763-1775.
- Jenkins, B.M., S.Q. Turn, and R.B. Williams. 1992. Atmospheric emissions from agricultural burning in California: determination of burn fractions, distribution factors, and crop-specific contributions. *Agriculture, Ecosystems and Environment*. 38:313-330.
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- Walker, P.N. and S.Q. Turn. 1989. A system for determining photosynthetic photon flux density distribution of luminaires. *Acta Horticulturae* (257):73-78.
- Turn, S.Q., J.K. Wang, and C. Gopalakrishnan. 1988. Energy use in cotton production in China. *International Journal of Energy Systems*. 8 (3):169-172.
- Turn, S.Q. and P.N. Walker. 1987. Design and operation of a test facility for determining photosynthetic photon flux density distribution of luminaires for greenhouses. *TRANS of the ASAE*. 30 (2):492-495,501.

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PERSONAL STATEMENT

As a long time professional in the fields of indigenous crop biodiversity and food security, habitat restoration, and participatory development, and as the director of a nonprofit, I am a skilled multi-tasker and wear many hats. Being able to give back to community and to the ‘āina that feeds us is what fuels and inspires my work. Kalo has the unique ability to teach across many subjects and reach those youth and adults least comfortable in the classroom. I am fortunate to be able to use my skills in agriculture, habitat restoration, photography, writing, and science to help landowners develop and implement regenerative plans and help students reframe their lives, learn skills, and find their own passions.

AFFILIATIONS:

Member, Ka Lei Maile
Ali‘i (formerly a
Hawaiian Civic Club
prior to 2016), 2003-
present

Member, ‘Onipa‘a Nā Hui
Kalo, a statewide
network of taro growers,
1995 – present

Member, Hawai‘i Farmers
Union United, 2011-
present

Member: IUCN Hawaiian
Plant Specialist Group
2007- present

Member: Taro Security and
Purity Task Force
legislative body, 2008-
2015.

Haumana, Nā Hanona
Kulike O Pi‘ilani, Kumu
Kaponoi Molitau, 2015-
present

CURRENT WORK

- Executive Director and Project Coordinator, E kūpaku ka ‘āina, a Maui-based nonprofit, 2004-present
- Mentor, Maui Hui Malama learning center, 2011-present
- Mentor, Kānehoalani Safe House for Boys, 2011- [House closed 3/2024]
- Hawaiian crop cultivars specialist statewide, 2001-present
- Conservation and habitat restoration planner, 1998-present
- Taro farmer, 1987-present

RELEVANT EXPERIENCE IN INDIGENOUS KNOWLEDGE AND AGRICULTURE FIELD

- Specialist, Hawaiian kalo varieties and indigenous crop biodiversity conservation active in the field for over 30yrs.
- Kumu, Hālau o Hāloa, a school of knowledge for and about Hāloa/kalo dedicated to growing the next generation of kalo elders (established 2018-present).
- Degraded habitat restoration guidance and implementation, including lowland wet and dry ecosystems, wetlands, riparian, and coastal zone sites in Maui County.
- Traditional Hawaiian agricultural sites restoration and traditional agricultural practices (lo‘i and malo‘o)
- Active taro farmer

RELEVANT RESEARCH, SELECTED PUBLICATIONS AND PRESENTATIONS

Researches in Traditional Hawaiian Agricultural Practices:

Lunar influences on kalo growth, productivity and quality, Moloka‘i 2018-present

Traditional Hawaiian mulching and soil care practices Maui 2008-present

Studies in traditional Hawaiian food crops; Bulletin 84: Taro Varieties in Hawai‘i revisions project, 1987 - present; ‘Uala project 2022-present

2023 *Understanding Traditional Hawaiian Agricultural Knowledge to Improve Taro Production and Resilience in Crop Systems*. Quazifilms, released Dec 2023.

2023 Levin, P, ed, Ching, K and Togiva, V. *Bulletins in Botany No. 5: Taro Varieties in American Samoa*. Bishop Museum Press, E kūpaku ka ‘āina and Lyon Arboretum. <http://hbs.bishopmuseum.org/pubs-online/pdf/bb5.pdf>

2020 “Kalo and ‘Uala: Akua, ‘Āina, Kino, ‘Ohana.” Presentation at *The Art of the Warrior; The Mind of the Kahuna* training. Kualoa, O‘ahu, February 22, 2020.

2018 Levin, P.; Sugii, N. *Ho‘olanalana—Learning from the Spider: Generational Integrity in Vegetative Seed Storage and Recovery*. Presentation at the Hawai‘i Native Seed Conservation Conference, Honolulu, HI, 15–18 May 2018.

2018 Kagawa-Viviani, A.; Levin, P.; Johnson, E.; Ooka, J.; Baker, J.; Kantar, M.; Lincoln N. “I Ke Ewe Aina o Ke Kupuna: Hawaiian Ancestral Crops in

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Perspective.” *Sustainability* 2018, 10, 4607; doi:10.3390/su10124607

- 2015 “Searching for Sustainable Agriculture in Hawai‘i” and “Lessons from the Taro Patch” in Chirico, J. and G. Farley, eds. *Thinking Like an Island: Navigating a Sustainable Future in Hawai‘i*. University of Hawai‘i Press.
- 2010 L. Buchanan and P. Levin. *Hui kala: Acknowledging Hewa; Bringing Everything into Accord – Improving Biodiversity Conservation Efforts Through a Deeper Understanding of Cultural Practices and Protocols*. Presentation, Hawa‘i Conservation Conference: Pacific Ecosystems Management and Restoration – Applying Traditional and Western Knowledge Systems. Honolulu, HI, August 2010.
- 2009 Levin, P., ed. *E Ola Hou Ke Kalo; Ho‘i Hou Ka ‘Āina Lē‘ia – The taro lives; abundance returns to the land*. Taro Security and Purity Task Force 2010 Report to the Hawai‘i State Legislative. Honolulu, HI.
- 2008 with Jim Hollyer et al. *From Mauka to Makai: An Upland Taro, Wet Taro, and Taro Leaf Production Guide* Revised Edition (and 1987). College of Tropical Agriculture and Human Resources, University of Hawai‘i at Mānoa. Honolulu, HI.
- 2006 Levin, P., ed. *Statewide Strategic Control Plan for Apple Snail (*Pomacea canaliculata*) in Hawai‘i*. (a major taro pest) produced for the Hawai‘i Division of Aquatic Resources. Honolulu, HI.
- 2003 ‘Onipa‘a Nā Hui Kalo with P. Levin and K. Mahealani Davis, eds. *Guidelines for Grassroots Lo‘i Kalo Rehabilitation: Pono, Practical Procedures for Lo‘i Kalo Restoration*. Queen Lili‘uokalani Children’s Center and ‘Onipa‘a Nā Hui Kalo. Honolulu, HI.

RELEVANT WORK HISTORY:

- 2004-present Executive Director/Project Coordinator. E kūpaku ka ‘āina.
- 2003-present Consultant. Conservation planning, habitat restoration, archival research, grant writing, curriculum development.
- 2015-2016 Planning Coordinator. Indigenous Crop Biodiversity Festival, official parallel event to the IUCN World Conservation Congress, Honolulu, HI.
- 1999-2002 Restoration Ecologist. Kaho‘olawe Island Reserve Commission. HI.
- 1998-1999 Natural Resource Conservation Service Forest Specialist/Service Forester. Forestry and Wildlife Division-DLNR, Hilo, HI.

EDUCATION

- ABT (MA) Urban & Regional Planning, 2002. Field: *Land Use/Community Based Planning*. University of Hawai‘i at Mānoa, Honolulu, HI
- Fellow and Affiliate, 1991-1998. Participatory Development Program - Resource Systems Institute, and Social Forestry Program - Environment, Economic Development and Policy Institute, East West Center, Honolulu, HI.
- MA Asian Studies, 1990. Field: Southeast Asian Studies. Focus: *Agriculture/Anthropology*. University of Hawai‘i at Mānoa, Honolulu, HI
- Peace Corps. Southern Thailand, 1981-1984.
- BA Fine Arts, 1981. Focus: *Fine Art/Anthropology/Ecology*. Colorado College, Colorado Springs, CO.