

EDUCATION

Ph.D. Natural Resources, 2006, *University of Idaho, Moscow*

Dissertation: Public Participation in Central American Community-Based Natural Resource Management Projects: Methods, Processes, and Outcomes.

Master's in Public Policy, 1995, *Rutgers-State University of New Jersey, Camden*

Thesis: Public Participation in Wildlands Management: Community-based Ecotourism Planning and Management. Peace Corps Master's International Program.

B.A. Economics and Political Science, 1990, *University of California at San Diego, Third/Marshall College. Cum Laude*

Emphasis: Political Theory, Environmental Economics, Law and Society certificate

EMPLOYMENT HISTORY

Chief Sustainability Officer and Associate Professor, Northern Arizona University (01/2023-Present)

Associate Professor, Northern Arizona University, School of Earth & Sustainability, Flagstaff AZ. (06/2014-Present)

Assistant Professor, NAU, SESES, Flagstaff AZ. (08/2008-06/2014)

Assistant Professor, Alaska Pacific University, Anchorage AK. (8/2006-06/2008)

Instructor, Alaska Pacific University, Anchorage AK. (8/2003-5/2006)

Auditor, Scientific Certification Systems, Emeryville, CA. (05/2003-06/2004)

Graduate Instructor/Teaching Assistant, University of Idaho, Moscow, ID. (1998-2000, 2002, 2003)

Policy Analyst/Consultant, The Nature Conservancy, Arlington, VA. (04/2001-07/2001)

Facilitator/Consultant, Organization of American States (OAS), San Salvador. (08/1998-12/1998)

Graduate Research Assistant, University of Idaho, Moscow, ID. (08/1998- 09/1999)

Science Advisor, Patuca River Campaign, Honduras. (01/1997-01/2018)

Scientist- Socio-Economist, Foster Wheeler Environmental Corp., Bellevue, WA. (09/1995-06/2003)

Policy Analyst, MOPAWI (Development of La Mosquitia), Honduras. (02/1995- 06/1995)

Peace Corps Volunteer-Protected Areas Management, Peace Corps Honduras. (08/1991-02/1995)

Graduate Research Assistant, Rutgers University. (01/1991-06/1991)

PUBLICATIONS

Peer Reviewed (*student co-authorship)

Pearson, A., McSweeney, K., Nielsen, E.A. & J.T. Piccorelli (2022). Acknowledging Cocaine Capital in Central American Development. *International Journal of Illicit Economics and Development*. 4(2). <https://jied.lse.ac.uk/article/10.31389/jied.110/>

Tellman, B., McSweeney, K., *Manak, L., Devine, J. A., Sesnie, S., Nielsen, E., & Dávila, A. (2021). Narcotrafficking and Land Control in Guatemala and Honduras. *Journal of Illicit Economics and Development*, 3(1). <http://doi.org/10.31389/jied.83>

- Tellman, B., McSweeney, K., *Manak, L., Devine, J. A., Sesnie, S., Nielsen, E., & Dávila, A. (2021). Narcotráfico y control de la tierra en Guatemala y Honduras. *Journal of Illicit Economies and Development*, <https://doi.org/10.31389/jied.83>
- Karimzadeh, M., *Han, H., Tellman, B., & Nielsen, E. (2021). Classifying Narcotrafficking Spatial Event Documents using Transformers. eScholarship, University of California. <https://doi.org/10.25436/E2B88Q>
- *Cowan, E., Grimm, K., Nielsen, E.A., Davis, E.J., & A. Waltz (2021). New Hands in U.S. Public Lands Management: The Role and Influence of Non-Agency Partners in Forest Service Stewardship Agreements. *Journal of Forestry*, 120(3), 302-315. <https://doi.org/10.1093/jofore/fvab058>
- *Sanders A. R., Nielsen, E.A., & Abrams, J. (2021) Does Information and Deliberation Affect Ecosystem Service Judgments? Evidence from Tree Plantation Expansion in Argentina, *Society & Natural Resources*, DOI: [10.1080/08941920.2021.1961957](https://doi.org/10.1080/08941920.2021.1961957)
- Knowlton, J. L., Halvorsen, K. E., Flaspohler, D. J., Webster, C. R., Abrams, J., Almeida, S. M., Arriaga, S., Barnett, B., Cardoso, M., Cerqueria, P., Cordoba, D., Persio, M., Dunn, J., Esasmond, A., Jarvi, G., Licata, J., Mata-Zayas, E., Medeiros, R., Mesa-Jurado, M., Moo-Culebro, L., Mosley, C., Nielsen, E., Phifer, C., Pischke, E., Schelly C., Selfa, T., *Silva, C., Souza, T., Sweitz, & Vázquez-Navarrete, C. J. (2021). Birds and Bioenergy within the Americas: A Cross-National, Social–Ecological Study of Ecosystem Service Tradeoffs. *Land*, 10(3), 258. <https://doi.org/10.3390/land10030258>
- Anderson, C. B., Pizarro, J. C., Valenzuela, A. E., Ader, N., Ballari, S., Cabalín, J. L. C., Car, V., Dicenta, M., Nielsen, E.A., *Roulier, C., & Van Aert, P. (2021). Reconceiving the Biological Invasion of North American Beavers (*Castor canadensis*) in Southern Patagonia as a Socio-ecological Problem: Implications and Opportunities for Research and Management. In *Biological Invasions in the South American Anthropocene* (pp. 231-253). Springer, Cham. DOI: 10.1007/978-3-030-56379-0_11
- Tellman B, Sesnie SE, Magliocca NR, Nielsen EA, Devine JA, McSweeney K, Jain M, Wrathall DJ, Dávila A, Benessaiah K, Aguilar-Gonzalez B. (2020) Illicit Drivers of Land Use Change: Narcotrafficking and Forest Loss in Central America. *Global Environmental Change*. 63, 102092. <https://doi.org/10.1016/j.gloenvcha.2020.102092>
- *Archibald, J. L., Anderson, C. B., Dicenta, M., *Roulier, C., *Slutz, K., & Nielsen, E. A. (2020). The relevance of social imaginaries to understand and manage biological invasions in southern Patagonia. *Biological Invasions*, 1-17. <https://doi.org/10.1007/s10530-020-02325-2>
- Wrathall, D. J., Devine, J. A., Aguilar-Gonzalez, B., Benessaiah, K., Tellman, E., Sesnie, S., Nielsen, E.A., Magliocca, N. R., McSweeney, K., Nielsen, E. A., Pearson, Z., Posingel, J., Rivera Sosa, A., & A. Davila (2020). The Impacts of cocaine-trafficking on conservation governance in Central America. *Global Environmental Change*. <https://doi.org/10.1016/j.gloenvcha.2020.102098>
- *Roulier, C., Nielsen, E.A., Pizarro, J.C., & C.B. Anderson (2020). Review of ecological restoration research in the Global South and North to promote knowledge dialogue. *Conservation and Society* 18(3): 298-310. https://doi.org/10.4103/cs.cs_19_91
- *Roulier, C., Anderson, C.B., Ballari, S.A., & Nielsen, E.A. (2020) Estudios Sociales y socioecológicos sobre restauración ecológica: Una revisión de la literatura a escala global e iberoamericana. *Ecologia Austral*. 30:019-032
- McSweeney K. and EA Nielsen (2020). Climate Change in Central America: The Drug War Connection. *Georgetown Journal of International Affairs* 20(1) <https://gjia.georgetown.edu/2020/05/13/climate-change-in-central-america-the-drug-war-connection/>
- *Mrotek, A., Anderson, C. B., Valenzuela, A. E., Manak, L., Weber, A., Van Aert, P., Malizis, M. & Nielsen, E. A. (2019) An evaluation of local, national and international perceptions of benefits and

- threats to nature in Tierra del Fuego National Park (Patagonia, Argentina). *Environmental Conservation*, 1-8. <https://doi.org/10.1017/S0376892919000250>
- Magliocca, N. R., McSweeney, K., Sesnie, S. E., Tellman, E., Devine, J. A., Nielsen, E. A., Pearson, Z. & Wrathall, D. J. (2019). Modeling cocaine traffickers and counterdrug interdiction forces as a complex adaptive system. *Proceedings of the National Academy of Sciences*, 116(16), 7784-7792. <https://doi.org/10.1073/pnas.1812459116>
- Dunn, J.L., J.L. Knowlton, R.M. Handler, E.C. Pischke, K.E. Halvorsen, M. Azahara Mesa-Jurado, T. Selfa, D. Flaspohler, J. Licata. E. Mata, R. Medeiros, C. Moseley, E. Nielsen, V. Picasso, J.C. Sacramento Rivero, T. Souza, C. Vazquez, & N. Basiliko. (2019). Lessons from the Transdisciplinary International BIOPIRE Project. in K.E. Halvorsen, C. Schelly, R. Handler, and J.L. Knowlton, Eds., *A Research Agenda for Environmental Management*, Edward Elgar. P107-120. <https://doi.org/10.4337/9781788115193.00020>
- *Sample, M., Aslan, C.E., Nuñez, M., Policelli, N., Nielsen, E.A., Sanford, R.L. (2019). Increase in nonnative understory vegetation cover after nonnative conifer removal and passive restoration. *Austral Ecology*. <https://doi.org/10.1111/aec.12812>
- *Wadsack, K., Nielsen E.A., Auberle, W., & T. Acker (2018). Implications of energy storage and climate change for pollution control under the Clean Air Act. *The Electricity Journal*, 31(10), 17-23. <https://doi.org/10.1016/j.tej.2018.11.007>
- McSweeney, K., Nielsen, E.A., Wrathall, D.J. & Z. Pearson. (2018). Grounding traffic: embedding drug flows in spaces of transit. *Geoforum* 95, 122-132. <https://doi.org/10.1016/j.geoforum.2018.07.008>
- Abrams, J., E.A. Nielsen, D. Diaz, & T. Selfa (2018). How do states benefit—and benefit from—nonstate forest governance models? Evidence from sustainability certification in the US and Argentina. *Global Environmental Politics*, 18(3), 66-85. https://doi.org/10.1162/glep_a_00470
- *Miller, R., Nielsen E., & C.H. Huang. (2017). Ecosystem Service Valuation through Wildfire Risk Mitigation: Design, Governance and Outcomes of the Flagstaff Watershed Protection Project. *Forests*, 8(5), 142 doi:[10.3390/f8050142](https://doi.org/10.3390/f8050142)
- Sesnie, S., Tellman, E., Wrathall, D., McSweeney, K., Nielsen, E., Bennesaiah, K., Wang, O., & L. Ray (2017). A spatio-temporal analysis of deforestation related to cocaine trafficking in Central America. *Environmental Research Letters*. 12(5), 054015 <https://doi.org/10.1088/1748-9326/aa6fff>
- *Sheridan, R., Fule, P. & E.A. Nielsen (2015). Identifying socio-ecological linkages to develop a community fire plan in Mexico. *Conservation and Society* 13(4):395-406.
- Harris, C. C., Becker, D. R., Nielsen, E. A., & McLaughlin, W. J. (2014). *Public Deliberation About Salmon Restoration Impacts: Differences In The Input Of Citizens In Different Community Roles*. *Journal of Environmental Assessment Policy and Management*, 16(04), 1450033.
- McSweeney, K., Nielsen, E.A., Taylor, M. J., Wrathall, D.J., & Pearson Z., Wang, O. & *Plumb, S.T. (2014). *Drug Policy as Conservation Policy: Narco-Deforestation*. *Science*, 343(6170), 489-490. doi:10.1126/science.1244082
- McSweeney, K., *Pearson Z., & Nielsen, E.A. (2013). *Prying Native People from Native Lands: Narco Business in Honduras*. *NACLA Report on the Americas*, 46(4):7-12.
- Mueller, J.M., *Swaffar W.S., Nielsen, E.A., Springer, A.E. & Lopez, S.M., (2013). *Estimating the Value of Watershed Services Following Forest Restoration*. *Water Resources Research*. 49(4): 1773-1781 doi: 10.1002/wrcr.20163
- *Chang, T., Nielsen, E.A., Auberle, W. & F.I. Solop. (2013). *A Quantitative Method to Analyze the Quality of EIA Information in Wind Energy Development and Avian/bat Assessments*. *Environmental Impact Assessment Review*, 38: 142-150. doi:10.1016/j.eiar.2012.07.005

- *Plumb, S., Nielsen, E.A., & Y.S. Kim. (2012). *Challenges of Opportunity Cost Analysis in Planning REDD+: A Honduran Case Study of Social and Cultural Values Associated with Indigenous Forest Uses*. *Forests*. 3(2):244-264. doi:[10.3390/f3020244](https://doi.org/10.3390/f3020244)
- Harris, C.C., E.A. Nielsen, D.R. Becker, D.S. Blahna, & W.J. McLaughlin (2012). *Results of Community Deliberation About Social Impacts of Ecological Restoration: Comparing Public Input of Self-Selected Versus Actively Engaged Community Members*. *Environmental Management* 50:191-203. Doi: 10.1007/s00267-012-9871-0
- *Henn, M., Ostergren, D., & Nielsen, E.A. (2011). *Integrating traditional ecological knowledge (TEK) into natural resource management: Perspectives and projects within western U.S. national parks*. *Park Science*. 27(3): 54-61.
- *Carter, B.T.G. and Nielsen, E.A. (2011). *Traditional and Local Ecological Knowledge of Factors Contributing to Cook Inlet Beluga Whale Population Declines*. *Marine Policy*. 35(3): 299-308.
- Becker, D.R., Harris, C.C., Nielsen, E.A. & McLaughlin, W.J. (2004). *A comparison of a technical and a participatory application of social impact assessment*. *Impact Assessment and Project Appraisal*. 22 (3): 177-189.
- Harris, C.C., E. Nielsen, D. Becker, & W.J. McLaughlin. (2003). *Community-based Social Impact Assessment: The Case of Salmon-Recovery on the lower Snake River*: *Impact Assessment and Project Appraisal*. 21(2): 109-118.
- Becker, D.R., McLaughlin, W.J., Harris, C.C. & Nielsen, E.A. (2003). *A Participatory Approach to Social Impact Assessment: The Interactive Community Forum*. *Environmental Impact Assessment Review*. 21(3): 367-382.

Journal Articles in Review or advanced preparation (*student co-authorship):

- Magliocca, N., Carter, N., Devine, J., Nielsen, E.A., & Sesnie, S. (2023). *Jaguar conservation is caught in the crossfire of America's war on drugs*. *Proceedings of the National Academy of Sciences*. (In review).
- Rodewald, A., Lello-Smith, A., Magliocca, N., Strimas-Mackey, M., McSweeney, K., Nielsen, E., & Sesnie, S. (2023) *America's birds have a drug problem*. *Science* (In Review).
- Nielsen, E.A., *Manak L., & McSweeney, K. (2023) *Silver, Lead, or Trees: How Effective Natural Resource Management Practices Are Undermined by the Presence of Illicit Resource-Based Activities in Honduras*. To be submitted to *Environmental Conservation*.
- Nielsen, E.A., S. Sesnie, & McSweeney K. (2023). *Sociological Effects of Narcotrafficking in the Rio Platano Biosphere Reserve, Honduras*. To be submitted to *Conservation Biology*.
- *Manak, L., Nielsen, E.A., & McSweeney, K. (2023) *At Each Other's Doorstep; the Juxtaposition of Illicit Land-Cover Change and Organizations Working on Conservation and Sustainable Development Initiatives in Honduras*. To be submitted to *World Development*
- Nielsen, E.A., McSweeney, K., & *Alocer, O. (2023). *Impacts of Illicit Road Construction*. To be submitted to *Conservation Biology*
- Aguilar-Gonzalez, B., Devine, J., Wrathall, D., Nielsen, E.A., Sesnie, S. McSweeney, K. (2021). *Impacts of Narco-Degradation on Protected Areas in Central America: A Critical Ecological Economics Approach*. To be submitted to *Global Environmental Change*
- *Silva, C., Nielsen, E.A., Abrams, J., Diaz, D. & T. Selfa (2021). *Community perceptions of tree plantation effects on ecosystem services and well-being in Argentina* (Revise and resubmit)
- *Sanders, A. R, Nielsen, E.A., Abrams, J (2021). *Tradeoffs in ecosystem services from Plantation forestry*. To be submitted to *Ecosystem Services*
- Nielsen, E.A. & W. McLaughlin (2021). *Empowerment and Hope in Community based Conservation Projects*. To be submitted to *Conservation and Society*.
- *Woods, K., *Langer, J., *Plumb, S., Nielsen, E.A., Huntzinger, D. (2021). *Offsetting Mega-fires in the Southwest Through Carbon Capital*. To be submitted to *Carbon Management*

Erik A. Nielsen: Northern Arizona University, Oct 2023

Nielsen, E.A. & *Plumb S. (2021). *Slowing Deforestation by Supporting Indigenous Governance in the Context of REDD+*. To be submitted to Forest Policy and Economics.

Peer Reviewed Technical Reports/Edited Proceedings

- Stortz, S., C. Cooley, & E. Nielsen. 2018. *Report on the Development of a Strategic Agreement between the Navajo Nation, National Park Service, and Bureau of Indian Affairs for the Cooperative Stewardship of Canyon de Chelly*. Submitted to the Navajo Nation Department of Natural Resources. 104pp. Available at: <https://sites.google.com/site/cachagreement>
- NPS, BIA, Navajo Nation (2018). *A Strategic Agreement between the Navajo Nation, National Park Service, and Bureau of Indian Affairs for the Cooperative Stewardship of Canyon de Chelly*. Drafted by Stortz, S., C. Cooley, & E. Nielsen, NAU Landscape Conservation Initiative. 39pp. Available at <https://sites.google.com/site/cachagreement>
- McSweeney, K. (2016). *The Impact of Drug Policy on the Environment*. Open Society Foundations. <https://www.opensocietyfoundations.org/reports/impact-drug-policy-environment> Nielsen contributor
- Nielsen, E. (2015) Contributing Author to "Keeping Arizona's Water Glass Full " eds. Ferris, K., S. Porter, A. Springer, S. Eden, S.B. Megdal, Phoenix AZ: Arizona Town Hall <http://www.aztownhall.org/resources/Documents/107%20Background%20Report%20web.pdf>
- Egan, D. and Nielsen, E.A. (2014). *Case History of the Four Forest Restoration Initiative*. White paper: Ecological Restoration Institute, Northern Arizona University. <http://library.eri.nau.edu/gsd/collect/erilibra/index/assoc/D2014031.dir/doc.pdf>
- Machlis, G.E., Hockings, M., Nielsen, E.A., Russell, K., & Naymbe, N., James, R. (2005). *Delegates Survey Report: Vth IUCN World Parks Congress*. Gland, Switzerland: IUCN, World Commission on Protected Areas. 53pp.
- Machlis, G.E., Hockings, M., Nielsen, E.A., Russell, K., & Naymbe, N. (2005). *Survey of Participants at the Vth IUCN World Parks Congress*. In IUCN, *Benefits Beyond Boundaries: Proceedings of the Vth World Parks Congress*, Gland, Switzerland. p. 301-304. Document available at <http://app.iucn.org/dbtw-wpd/edocs/2005-007.pdf>
- Hrubes, R., Adams, D., Nielsen, E., & Thompson, M. (2004). *Forest Management and Stump-to-Forest Gate Chain-of-Custody Certification Evaluation Report for the Idaho Forest Lands Owned and Managed by the Resource Management Division, Potlatch Corporation*. Emeryville, CA: Scientific Certification Systems. 130 pp. Document available at: http://www.scs-certified.com/PDFS/forest_potlatch.pdf
- Harris, C.C., McLaughlin, W. J., Becker, D. R., & Nielsen, E.A. (2001). *Rural Community Assessments Applying Criteria & Indicators for Sustainable Resource Management*. In A. Franc, O. Laroussinie, & T. Karjalainen (Eds.), *European Forest Institute Proceedings: No. 38. Criteria and Indicators for Sustainable Forest Management at the Forest Management Unit Level* (pp. 29-44). Saarijärvi, Finland: European Forest Institute.
- Nielsen, E.A., (1999). *Social Analysis Report (SAR): Lower Snake River Juvenile Salmon Migration Feasibility Study*, [WWW document] <http://www.nww.usace.army.mil/lsr/products.htm>. Foster Wheeler Environmental Corporation. U.S. Army Corps of Engineers, Walla Walla, WA. 178 pp. Peer reviewed by the Independent Economic Advisory Board (IEAB) of the Northwest Power Planning Council.
- Harris, C.C., McLaughlin, W. J., Nielsen, E.A., & Becker, D.R. (1999). *Lower Snake River Juvenile Salmon Migration Feasibility Study: Community-Based Social Impact Assessment Phase I – Southeastern Washington, Northeastern Oregon, and North Central Idaho* [WWW document]. URL <http://www.nww.usace.army.mil/lsr/products.htm> Walla Walla, WA: U.S. Army Corps of Engineers. 463 pp.

Harris, C.C., McLaughlin, W. J., Becker, D. R., & Nielsen, E.A. (1999). *Lower Snake River Juvenile Salmon Migration Feasibility Study: Community-Based Social Impact Assessment Phase II – Southern Idaho* [WWW document]. URL <http://www.nww.usace.army.mil/lsr/products.htm> Walla Walla, WA: U.S. Army Corps of Engineers. 299 pp.

Technical Reports (*student co-authorship):

- *McNamara, B., Huntzinger, D. & Nielsen E.A. (2023). Towards Trustworthy, Reliable, and Actionable Greenhouse Gas (GHG) Accounting Data. White Paper for Energy Block Chain Consortium. 19p.
- Nielsen, E.A. (2021). Informe Técnico sobre tierras indígenas, carreteras ilícitas, usurpación de tierras y daños ambientales. Technical report submitted to the Confederación de Pueblos Actotoconos de Honduras Mayo 13p.
- Nielsen, E.A. (2015). Integrating Traditional Ecological Knowledge in Watershed Restoration at Canyon de Chelly National Monument. Summary report to the Navajo Nation Natural Resources and Development Committee. Window Rock, AZ 5p
- Nielsen, E.A. & *T. Henderson (2015). Integrating Traditional Ecological Knowledge in Watershed Restoration at Canyon de Chelly National Monument. Technical report submitted to the National Park Service, Colorado Plateau Cooperative Ecosystem Studies Unit. Flagstaff, AZ. 393p
- Nielsen, E.A., and F. Solop (2013). *Forest Health and Water Supply Protection Project Ballot Measure: Exit Poll Results*. Fact Sheet Ecological Restoration Institute. Document available at: <http://library.eri.nau.edu/gsd/collect/erilibra/index/assoc/D2013011.dir/doc.pdf>
- Nielsen, E.A. and *S. Plumb (2011). *Estudio de caso sobre la deforestación, gobernanza, uso de la tierra y bosques y percepción comunitaria sobre REDD+: Nueva Jerusalén, Reserva del Hombre y la Biosfera del Río Plátano*. Technical report submitted to the Rainforest Alliance; New York. 53pp.
- Sisk, T. D., Rundall, J.M., Nielsen, E.A., Dickson, B. G., Sesnie, S.E. (2009). *The Kaibab Forest Health Focus: Collaborative Prioritization of Landscapes and Restoration Treatments on the Kaibab National Forest*. The Forest Ecosystem Restoration Analysis Project, Landscape Ecology Lab, School of Earth Sciences and Environmental Sustainability, Northern Arizona University. Report Submitted to the National Forest Service. 124 pp. Document available at http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5120031.pdf
- Nielsen, E.A., *Bauder, P. & *Lewis A. (2005). *Recreation Use and Visitor Experience on the Karluk River: A Comparative Study 2002-2004*. Anchorage, AK: Kodiak National Wildlife Refuge, US Fish and Wildlife Service. 216 pp. Document available at http://kodiak.fws.gov/pdf/karluk_visitor_study_2005.pdf
- Machlis, G.E., Hockings, M., Nielsen, E.A., Russell, K., & Naymbe, N. (2004). *International Protected Area Training Needs*. Washington D.C.: National Park Service, International Training Office. 17 pp.
- United State Army Corps of Engineers (February 2002). *Lower Snake River Juvenile Salmon Migration Feasibility Study/Environmental Impact Statement* (author and analyst for sections: Affected Environment, 4.12-- Land Ownership & Use, 4.14--Social Resources; and Environmental Effects 5.8.3.2--Transportation, 5.11--Land Ownership and Use and 5.13--Social Resources) [WWW document]. Document available at: <http://www.nww.usace.army.mil/Library/2002LSRStudy.aspx> Walla Walla, WA: U.S. Army Corps of Engineers.
- United State Army Corps of Engineers (February 2002). *Lower Snake River Juvenile Salmon Migration Feasibility Study/Environmental Impact Statement: Summary Document* (contributor and editor) [WWW document]. Document available

- <http://www.nww.usace.army.mil/Library/2002LSRStudy.aspx> Walla Walla, WA: U.S. Army Corps of Engineers.
- United State Army Corps of Engineers (February 2002). *Economic Appendix I, Lower Snake River Juvenile Salmon Migration Feasibility Study/Environmental Impact Statement* (author of Social Impact Analysis) [WWW doc]. Document available <http://www.nww.usace.army.mil/portals/28/docs/environmental/drew/social.pdf> Walla Walla, WA: U.S. Army Corps of Engineers.
- Nielsen, E.A. (1998). *Public Participation in the middle Patuca Region of the Mesoamerican Biological Corridor: The Tawahka Asagni Biosphere Reserve and the Patuca II Hydroelectric Project*. Washington, D.C.: Organization of American States. 29pp.
- Nielsen, E.A. (1998). *Participación Pública en la Región del río Patuca Medio en el Corredor Biológico Mesoamericano: La Reserva de Biosfera Tawahka Asagni y el Proyecto Hidroeléctrico Patuca II* Washington, D.C.: Organización de Estados Americanos. 29pp. [English and Spanish]
- Nielsen, E.A. (1994). *Las Áreas Protegidas de Olancho, Honduras: Una Guía de Enseñanza*. Proyecto Desarrollo Forestal: USAID/COHDEFOR, Honduras, 48pp.

PROFESSIONAL PRESENTATIONS

Invited

- Nielsen, E.A. (April 2023). *Making the hidden visible: Interdisciplinary methods to understand the environmental, social and developmental impacts of the war on drugs in Central America*. NAU Latin American Studies Seminar.
- Nielsen, E.A. (November 2021). *The impact of informal road building on indigenous communities and forests in Eastern Honduras: Narcotrafficking infrastructure*, William and Mary Institute for Integrative Conservation
- Nielsen, E.A. (September 2021). *State of Climate Science and Solutions*, Flagstaff Festival of Science
- Nielsen, E.A. (June 2020). *La Dinamica de Deforestacion en la Época de Covid-19: El Oriente de Honduras*. IUCN, Dia Mundial de Selvas Tropicales
- Nielsen, E.A. (July 2020) *La Reserva del Hombre y la Biosfera Rio Plátano y La Reserva de la Biosfera Tawahka Asagni y Su Gobernanza*. Webinar, Colegio de Profesionales Forestales de Honduras.
- Festival of Science (September 2019). *State of Climate Science and Solutions*. Flagstaff Festival of Science. Panelists on Policy advances
- Nielsen, E.A. (May 2019). *Socio-Ecological Impacts and Status of the Rio Platano Biosphere Reserve*, Honduran National Biodiversity Congress, La Ceiba.
- Nielsen, E.A. (September 2018). *Policies for addressing Climate Change*. Flagstaff Festival of Science.
- Nielsen, E.A. (October 2018). *Projecting NAU growth and impacts on housing and traffic*. City of Flagstaff Growing Pains Committee.
- Nielsen, E.A. (May 2018). *Voter concerns for the Flagstaff Watershed Protection Project*, Flagstaff AZ, Portland State University
- Nielsen, E.A. (November 2017). *Drivers of Deforestation in Central America*. University of Maine, School of Forest Resources.
- Nielsen, E.A. (November 2017). *Advancing Research Ties in Patagonia through NSF-Funded Projects*. 20th Colloquium on International Engineering Education, Northern Arizona University
- Nielsen, E. A. (September 2016). *Comprendiendo el Fenomeno de Narco Paisajes: Deforestation, Economia y Conflictividad Ambiental en America Central*. Keynote: II Latin America Congress on Environmental Conflicts, San Jose Costa Rica.
- Nielsen, E.A. (April 2016). *Bioenergy Sustainability in the Americas: An Interdisciplinary research approach*. CONICET/CADIC Seminar, Ushuaia, Argentina.
- Erik A. Nielsen: Northern Arizona University, Oct 2023

- Nielsen, E.A. (December 2015). *Traditional Ecological and Watershed Restoration in Canyon De Chelly*. Navajo Nation Natural Resource and Development Committee, Window Rock, AZ.
- Nielsen, E.A. (January 2016). *Drivers of Deforestation in Central America*. World Resources Institute, Washington D.C.
- Nielsen, E.A. (October 2014). *Indigenous Lands and Deforestation in Honduras*. University of Maine, School of Forest Resources Seminar
- Nielsen, E.A. (September 2014). Cattle, Cocaine, and Conservation. SESES Seminar, NAU, Flagstaff Arizona.
- Nielsen, E.A. (June 2014). *Community Dimensions of Narcotrafficking and Deforestation in Honduras*. US Southern Command/Joint Interagency Task Force, Miami, Florida.
- Nielsen, E.A. (May 2014). *Participatory Social Science and Interdisciplinary Research on Payment for Watershed Services*. CADIC/CONICET Seminar Series. Ushuaia, Argentina
- Nielsen, E.A. (May 2014). *Journey to Science*. Keynote Presentation for SESES Alumni Reception
- Nielsen, E. A. (April 2014). *Collaborative Dimensions of the Four Forest Restoration Initiative*. Forest Restoration Forum, Museum of Northern Arizona, Flagstaff, AZ.
- Nielsen, E.A. (April 2014). *Climate Change Policy Options Panelist*. Taking Earth's Temperature Documentary Premier. Flagstaff, AZ.
- McSweeney, K. and Nielsen, E.A. (March 2014). *Conservation, Deforestation and Narco-trafficking in Central America*. Mesoamerican Congress of Indigenous Peoples, IUCN/Ford Foundation, Costa Rica.
- Nielsen, E.A. (March 2014). *Narco-trafficking as a Driver of Mesoamerican Deforestation*. IV IUCN Mesoamerican Congress on Protected Areas, San Jose, Costa Rica.
- Nielsen, E.A., and McSweeney, K. (March 2014). *SOS for Mesoamerican Biological Corridor*. IV IUCN Mesoamerican Congress on Protected Areas, San Jose, Costa Rica.
- Nielsen, E.A. (September 2013). *Social Dimensions of Forest Policy and Management: The case of Payment for Ecosystem Services to Restore Forests in Arizona*. 4th Latin American and Argentine Forestry Congress. Iguazu, Argentina.
- Nielsen, E.A. (July 2013). *Payment for Watershed Services Research: Economics, Governance and Public Opinion*. Watershed Restoration Forum sponsored by the Salt River Project. Tempe, AZ.
- Nielsen, E.A. (April 2013). *"The Future of Arizona's Forests: Anticipating the effects of climate change and fire on water sustainability. Payment for Watershed Services (PWS) Program in Arizona: Linking Downstream Beneficiaries to Forest Restoration"* Arizona State University Water/Climate Briefings at the NSF sponsored Decision Center for a Desert City Tempe, AZ. <http://vimeo.com/64844794>
- Nielsen, E.A. (May 2013). *Forest Health & Water Supply Protection Project: Voter Perceptions and Implications for Implementation*. Invited Presentation to the US Forest Service and City of Flagstaff Executive Committee for the Watershed Protection Project, Flagstaff, AZ.
- Nielsen, E.A. & Solop, F. (January 2013). *Question 405: Forest Health & Water Supply Protection Project Preliminary Voter Survey Results to Inform Project Monitoring*. Invited presentation to the City of Flagstaff and stakeholders, Flagstaff AZ.
- Nielsen, E.A. (March 2012). *Payment for Ecosystem Services on Western National Forest Lands*. Invited Presentation to Colorado State University Ecosystem Services Seminar, Werner College of Natural Resources, Fort Collins CO.
- Nielsen, E.A. (January 2012). *PWS Programs on Western National Forest Lands: Feasibility and Design Considerations*. Invited Presentation to the Arizona Governor's Forest Health Council, Phoenix AZ. http://www.azgovernor.gov/fhc/documents/Materials/2012/FHC_011912_NielsenAZGFHCPWS.pdf

Nielsen, E.A. (August 2010). *Riesgos y Oportunidades Comunitarios de Pagos por Servicios Ambientales*. Yale's Environmental Leadership and Training Initiative, Forest Trends and USAID to present at the Central American Conference on Payment for Ecosystem Services, La Ceiba Honduras. <http://www.forest-trends.org/documents/index.php?documentID=1300>

Nielsen, E.A. (September 2009). *Community Empowerment in Conservation: Cases from Central America*. Invited Seminar presentation to the NAU Forestry Seminar Series, Flagstaff, AZ

Contributed Paper or Poster Presentation (*student co-author)

Mwedzi, T., Nielsen, E.A.(2023). Evaluating the benefits of the 2022 True Blue Summer Flex Policy: Financial, human and environmental sustainability of the “New NAU Workplace” Accepted presentation for Association for the Advancement of Sustainability in Higher Education Conference.

Nielsen, E.A., *Manak, L., McSweeney, K. (2023). Pursuing Conservation and Development in Rural Honduras Amid Illicitness and Narcotrafficking: Challenges and Responses. Congress of Latin American Geographers, Tucson, AZ.

McSweeney, K., Sandoval,M., Jose, P., Sesnie, S., Ordonez, M., Nielsen, E., Devine, J., & Tellman, B. (2023) Central American Coca: Eight Questions. Congress of Latin American Geographers, Tucson, AZ

*Manak, L., Nielsen, E.A., McSweeney, K. (2023) Narcotrafficking Across a Nation: The Juxtaposition of NGO's work and Illicit Activities Embedding into the Licit Economy in Rural Honduras. Congress of Latin American Geographers, Tucson, AZ

Arellano-Thompson, E. B., Sesnie, S., Nielsen, E.A., Magliocca, N.; McSweeney, K., (2023) Illicit drivers, climate change, and accelerated forest loss within a Central American World Heritage Site. Congress of Latin American Geographers, Tucson, AZ

Mukherjee, R., Tellman, B., Manak, L., Magliocca, N., Nielsen, E.A., Ellison, J.; Waldrup, H., Velicheti, P., (2022) Mapping Clandestine Infrastructure in Narco-Trafficked Areas using Multi-source Satellite Data and Deep Learning. Congress of Latin American Geographers, Tucson, AZ. Accepted but conference cancelled due to COVID 3 weeks prior.

Magliocca,N. R. ,Sink, C.D., Devine, J.; Fagan, M.; McSweeney, K.; Mukherjee, R., Nielsen, E.A. Sesnie, S.E., Tellman-Sullivan, E., (2022) Mixed-Methods Triangulation of Narco-Trafficking Land-Use Changes In and Around Central America's Protected Areas Congress of Latin American Geographers, Tuscon, AZ—Accepted but conference cancelled due to COVID 3 weeks prior.

Sesnie, S.E., Nielsen, E., McSweeney, K..(2022) Determining forest loss cycles for land management designations within the Río Plátano Biosphere Reserve, Honduras Congress of Latin American Geographers, Tuscon, AZ—Accepted but conference cancelled due to COVID 3 weeks prior.

Nielsen, E.A., Magliocca, N., McSweeney, K., Fagan, M., Sensie, S., Tellman E., & Devine J. (2021) Roads, Deforestation, and the Evolution of a Narco-Trafficking Economy in Eastern Honduras AGU meeting abstracts 2021 GC44A-01, December 16th, New Orleans, LA.

Karimzadeh, M., Han, H., Tellman, B., & Nielsen, E. (December 2021). Classifying Narcotrafficking Spatial Event Documents using Transformers, The 2nd Spatial Data Science Symposium—Spatial and Temporal Thinking in Data-Driven Method

Pearson, Z., Nielsen, E.A., & McSweeney K. (June 2019). Illicit capital flows in Central America and Developmental Implications. Development Studies Association Milton Keynes, UK, June 19-21,

Nielsen, E.A. (July 2018). Socio-ecological effects of narcotrafficking in the Rio Platano Biosphere Reserve, Honduras. Congress of Latin American Geographers, San Jose Costa Rica.

Nielsen, E.A., and C. Silva (June 2016) *Defining ecosystem services and links to well-being in a shifting agricultural landscape: perceived benefits and impacts of tree plantations in Argentina*. International Symposium on Society and Resource Management. Houghton, MI

- Silva, C. and E.A. Nielsen. (June 2016) *The Role of Land Use History and Existing Tenure in Shaping Tree Plantation Developments in Argentina*. International Symposium on Society and Resource Management. Houghton, MI
- Nielsen, E.A., McSweeney, K. (October 2015). *Moral Teleconnections: International Drug Policy and Land Use Change in Transit Zones*. Conference on Complex Systems, Tempe AZ.
- Nielsen, E.A. (October 2015). *Integrating Traditional Ecological Knowledge in Watershed Restoration at Canyon de Chelly National Monument*, (October 5-8th, 2015)
- Huntzinger, D.N., Nielsen, E.A., and J. Downard, (December 2015), *Environmental Discourse: Helping Graduate Students Build Effective Deliberation and Communication Skills*. American Geophysical Union: San Francisco, CA.
- Wrathall, D., McSweeney, K., Nielsen, E., Pearson, Z., (December 2015), *Narco-scapes*, American Geophysical Union: San Francisco, CA
- *McGuire, Z, Huntzinger, D.N., Nielsen, E.A., & Downard, J.B. (April 2015). *Climate Science and Solutions Public Discourse*. Fourth Annual Conference on Renewable Energy Science, Technology and Policy, Tucson, AZ.
- *Stortz, S.D., Sisk, T.D., Nielsen E.A, & Munoz-Erickson, T. (July 2014). *Early involvement, legitimacy and learning: the production of actionable science for the Greater Grand Canyon Landscape Assessment (GGCLA)*. Paper Presented at the North American Conference for Conservation Biology, Missoula Montana.
- Nielsen, E.A. (October 2013). *Traditional Ecological Knowledge and Watershed Restoration*. Paper presented at the Navajo Nation Research Conference, Window Rock, NM.
- *Fletcher, N., E.A. Nielsen, & E. Nowak (September 2013). *Understanding the Effectiveness of Using Citizen Science for the Conservation and Monitoring of Northern Mexican (Thamnophis Eques Megalops) and Narrow Headed (Thamnophis Rufipunctatus) Gartersnakes in the Verde Valley Arizona*. Poster presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- *Miller, R. and E.A. Nielsen. (September 2013) *Public Security through Forest Restoration Investments: Monitoring Public and Stakeholder Response and Engagement in a Collaborative Fuels Reduction Project*. Poster presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- *Stortz, S.D., Sisk, T.D., & E.A. Nielsen (September 2013) *Evaluating Participatory Analysis: Stakeholder Participation in the Greater Grand Canyon Landscape Assessment*. Paper presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- Nielsen, E.A., Solop, F. & *Miller, R. (September 2013). *Voting for Watershed Restoration: Understanding Underlying Dimensions of Voter Support for a Property Tax Funded Payment for Watershed Service Program on Forest Service Lands*. Paper presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- Nielsen, E.A. (September 2013). *Payments for Ecosystem Services in Support of Climate Mitigation*. Paper presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- McSweeney, K., Nielsen, E.A. & Wrathall, D. (July 2013). *Mesoamerica's Narco-Laundered Forests*. Paper presented at the 26th International Congress for Conservation Biology, Baltimore, MD.
- *Stortz, S.D., Sisk, T.D., Nielsen E.A., Rundall, J.M., & Chaudhry, R. (June 2013). *Participatory analysis in landscape assessments: eliciting values, prioritizing management and evaluating stakeholder participation in the Greater Grand Canyon Landscape Assessment*. Paper Presented at the 18th International Symposium on Society and Resource Management, Estes Park Colorado.

- Nielsen, E.A., *Greer, W. & Cheng, A. (June 2013). *Power Dynamics in Collaborative Forest Landscape Restoration: A case study of the Four Forest Restoration Initiative*. Paper Presented at the 18th International Symposium on Society and Resource Management, Estes Park Colorado.
- *Rooney, W., Nielsen E.A. & Moline, A. (May 2013). *How College-Level Environmental Education Effects Environmental Beliefs, Knowledge, and Self-Efficacy*. Poster Presented at NAU's 11th Annual Assessment Fair, Flagstaff AZ.
- Wang, O. & Nielsen E.A. (April 2013). *Cocaine, Cattle and Tropical Deforestation in Rio Platano, Honduras*. Paper presented at the Biodiversity Without Boundaries Conference, Baltimore, Maryland.
- McSweeney, K. Wrathall, D, Nielsen E.A. & Pearson, Z. (October 2012). *Narco-Trafficking Landscapes: Drug flows as accelerants of land dispossession in La Mosquitia, Honduras*. Paper presented at the International Academic Conference on Global Land Grabbing II, Cornell, NY.
- *Hoglander, C., Nielsen, E.A., Dickson, B.G. & Rosenstock, S. (July 2012). *Assessing Potential For Collaborative Reconciliation Of Conflicts From Contentious Wildlife Management In Southwestern Arizona Designated Wilderness*. Paper Presented at the North American Congress for Conservation Biology, Oakland, CA.
- *Plumb, S., Nielsen, E.A., Wang, O., Sesnie, S. (January 2012). *Cocaine, Cattle, and Tropical Forest Conservation: Understanding Drug Trafficking as a Driver of Deforestation in Central America*. Poster presented at the National Conference on Science, Policy and the Environment, Washington, D.C.
- *Swaffar, W., Nielsen, E.A. (January 2012). *Feasibility and Design Considerations of Payment for Watershed Services (PWS) Programs on National Forest Lands*. Poster presented at the National Conference on Science, Policy and the Environment, Washington, D.C.
<http://www.environmentandsecurity.org/topics/view/73634/>
- *Hoglander, C., Dickson, B, Nielsen, E.A. & Rosenstock, S. (October 2011). *Landscape models of habitat use by desert bighorn sheep (Ovis canadensis mexicana) in southern Arizona*. Paper Presented at the 11th Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ.
- *Ray, C., Dickson, B., Sisk, T.S., Nielsen, E.A. (October 2011). *Predicting the effects of ponderosa pine forest management on the northern goshawk*. Paper Presented at the 11th Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ.
- Nielsen, E.A., and *Plumb, S. (June 2011). *Slowing Deforestation by Supporting Indigenous Forest Governance in the Context of REDD*. Paper Presented at the 17th International Symposium on Society and Resource Management, Madison WI.
- *Plumb, S., and Nielsen, E.A. (June 2011). *Moving REDD Beyond Opportunity Costs: Social and Cultural Values Associated with Indigenous Forest Uses*. Paper Presented at the 17th International Symposium on Society and Resource Management, Madison WI.
- *Swaffar, W., and Nielsen E.A. (June 2011) *Payment for Watershed Services: A Tool for Supporting Western Watershed Stewardship?* Paper Presented at the 17th International Symposium on Society and Resource Management, Madison WI.
- Nielsen, E.A., Bischoff, J., and J. Bradybaugh. (March 2011). *Knowledge and Ways of Knowing: Is Science Knowledge the Only Paradigm for Resource Management Decision Making?* Presentation at the 2011 George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, New Orleans LA.
- Moline, A.B., and Nielsen, E.A. (March 2011). *If the understand, will they care? Assessing students' knowledge, abilities and dispositions toward the environment*. Poster presented at the 9th Annual NAU Assessment Fair, Flagstaff AZ.
- *Carter, B.T.G., and Nielsen E.A. (January, 2011). *Exploring Ecological Change in Cook Inlet Beluga Whale Habitat through Traditional and Local Ecological Knowledge*. Poster presented at the Alaska Marine Science Symposium, Anchorage, AK.

- Nielsen, E.A. (October 2010). *USFS Perspectives of the Kaibab Forest Health Focus Collaborative*. Poster Presented at the Society of American Foresters, Albuquerque, NM.
- Nielsen, E.A., T.D. Sisk, J.M. Rundall, S.E. Sesnie, & B.G. Dickson. (October 2009) *Transition to Collaboration in Forest Planning: Agency Perspectives on the Kaibab Forest Health Focus*. Paper presented at the 10th Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ.
- Rundall, J.M., T.D. Sisk, E.A. Nielsen, B.G. Dickson, S.E. Sesnie, A. Leonard, B. Higgins, & C. Minor (October 2009) *Kaibab Forest health focus: supporting collaborative decision-making on ecological restoration and land management at multiple scales*. Paper presented at the 10th Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ.
- Nielsen, E.A. (October 2008). *Who is Responsible to Whom? Improving Accountability in Biodiversity Conservation Projects Across Scales*. Paper presented at the IUCN World Conservation Congress. Barcelona, Spain. Session organizer on Accountability in Conservation.
- Nielsen, E.A. (June 2007). *Empowerment and Hope in Participatory Community-Based Conservation Projects*. Paper presented at the 13th International Symposium of Society and Resource Management. Park City, Utah.
- Nielsen, E.A. (June 2006). *Improving the Practice of Community-Based Conservation: Voices of Indigenous Participants*. Paper presented at the 12th International Symposium of Society and Resource Management. Vancouver, B.C.
- Nielsen, E.A., Russell, K., Machlis, G., Hockings, M., Nyambe, N. (October 2005). *Voices from the 5th World Parks Congress: Variation in Perceived Threats and Barriers to Protected Areas Across the Globe*. Poster presented at the 8th World Wilderness Congress. Anchorage, Alaska.
- Claith, A. and E.A. Nielsen. (October 2004). *Mediating Actors in Environmental Conservation: A comparative study of INGO-State-Community Relationships in Guatemala, Honduras, Costa Rica and Cuba*. Paper presented at the Latin American Studies Association International Congress. Las Vegas, Nevada.
- Nielsen, E.A. (June 2004). *Public Participation in Indigenous Community-Based Conservation Projects of the Mesoamerican Biological Corridor*. Paper presented at the Tenth International Symposium of Society and Resource Management. Keystone, CO.
- Nielsen, E. A. and W. J. McLaughlin. (June 2000). *Public participation in the conservation of Central America's biodiversity: Perspectives on the challenges of building participatory democratic mechanisms for environmental decision-making*. Paper presented at the Eighth International Symposium of Society and Resource Management: Culture, Environment, and Society, Bellingham, WA.
- Nielsen, E. A., Becker, D. R., McLaughlin, W. J., & Harris, C. C. (June 2000). *Into the Breach: Evaluating the Effectiveness of Interactive Community Forums as a Data Gathering Tool for Social Impact Assessment*. Paper presented at the Eighth International Symposium of Society and Resource Management: Culture, Environment, and Society, Bellingham, WA.
- Becker, D. R., Nielsen, E. A., Russell, K., & Harris, C. C. (June 2000). *Mill Ownership and the Social Dimensions of Timber Dependent Communities in the Interior Columbia Basin*. Paper presented at the Eighth International Symposium of Society and Resource Management: Culture, Environment, and Society, Bellingham, WA.
- Harris, C. C., McLaughlin, W. J., Nielsen, E. A., & Becker, D. R. (June 2000). *Social Impact Assessment in the Trenches: Result of a Community- Based Assessment of Social Impacts of Salmon Recovery*. Paper presented at the Eighth International Symposium of Society and Resource Management: Culture, Environment, and Society, Bellingham, WA.
- Harris, C. C., McLaughlin, W. J., Becker, D. B., & Nielsen, E. (June 2000). *Community-based Impact Assessment for Criteria & Indicators of Sustainable Forest Management*. Paper presented at the International Union of Forestry Researchers' Task Force on Sustainable Forest Management and the European Forest Institute. Nancy, France.

Nielsen, E. A., Becker, D. R., McLaughlin, W. J., & Harris, C. H. (August 1999). *Community Social Impact Assessment: Process Findings of the Interactive Community Forum Approach*. Paper presented at the Sixty Second Annual Meeting of the Rural Sociological Society, Chicago, IL.

Scholarly Reviews:

Society & Natural Resources, 2002-present (5 reviews)

Conservation Biology, 2005-present (1 review)

Natural Areas Journal, 2008-2016 (8 reviews)

Environmental Management, 2009-2020 (5 reviews)

GRANTS AND CONTRACTS (*Italics* not funded, *co-authored with graduate students)

Devine, J., Magliocca, N. (2023). "Illicit Economies and Climate Change: Cattle and Cocaine Trafficking in Central America" NSF Human-Environment and Geographical Science program (in review). Changed role from co-PI to advisory board due to new administrative position.

Nielsen, EA., McAnally-Trejo, E., Henn, A., (2023). Landscape Water Conservation Through Turf grass conversion. Arizona Water Resource Conservation Grants, AZ WIFA. (\$1,102,599). PI,

Nielsen, EA. Linthicum, D., Henn, A. (2023) Residential Water Conservation through Research and Education. Arizona Water Resource Conservation Grants, AZ WIFA. (\$200,365). PI, In Review

Mwedzi, T., Nielsen, E.A.(2023). Evaluating the benefits of the 2022 True Blue Summer Flex Policy: Financial, human and environmental sustainability of the "New NAU Workplace" NAU Green Fund. (\$3,100). Advisor

McNamara, B., Huntzinger, D., Nielsen E.A. (2022). Inventory of Financed Greenhouse Gas Emissions from NAU Foundation Investments. NAU Green Fund (\$3,750). Advisor.

Fernandez, L., Nielsen, EA., et al. (2022) Enhancing Hispanic retention at NAU. Proposal development for DOE--Developing Hispanic-Serving Institutions Program. 5 months grant planning but anticipated notice of funding not issued in spring 2023.

Rowe, H., Gray, R., Blaney, J., Johnson, N., Gurney, K., Nielsen, E., Schurr, T., Huntzinger, D., Bloom, N. (2022) *Transforming Northern Arizona University through Place-Based Inquiry: The Sustainable Campus Ecosystem Initiative*, IUSE, NSF (\$1,999,525) (not funded) Sr. Personnel

Grimm, K., Nielsen, EA, Perry, D. 2021 *Justice and Sustainability Training (JuST)for Students involved in Collaborative, International Education about Nature, Culture, and Ethics –JuST SCIENCE*. National Science Foundation (\$395,833) Co-PI

Nielsen, E.A. & C. Aslan (2021) Wyss Foundation. (\$275,881). Wyss Scholars for the Conservation of the American West-Northern Arizona University. PI

Grimm, K., Nielsen, EA, Perry, D., Aslan, C., Fule, P., (2020) *Justice and Sustainability Training (JuST) for Students involved in Collaborative, International Education about Nature, Culture, and Ethics –JuST SCIENCE*. National Science Foundation (\$395,454). Co-PI

Magliocca, N, Devine, J., McSweeney, K., Nielsen, EA., Sesnie, S., Fagan, M., Tellman, E., Cherrington, E. (2020) NASA-LULUC. (\$696,112) Making the Hidden Visible: Accelerated Land-Use Change and Degradation Caused by Narco-Trafficking In and Around Central America's Protected Areas, Co-I, 20-LCLUC2020-0048

Nielsen, E.A. & T.D. Sisk (2020) Wyss Foundation. (\$82,893.41). Wyss Scholars for the Conservation of the American West-Northern Arizona University. PI

Nielsen, E.A., Cheng, T., B. Dickson. (2019). *Google AI for Good*. (\$688,800). *Real-time observatory of land use change and narcotrafficking disturbances in Central America using AI*. Co-PI.

Armstrong, M., Allen, K. (2018) 100K Strong In the Americas Innovation Fund. (\$64,000). Leaders United for Positive Energy. Project Participant.

Erik A. Nielsen: Northern Arizona University, Oct 2023

- Manak, L., Nielsen E.A. (2018). National Geographic Society (\$25,000). *Governance challenges for indigenous communities in Honduras*.
- Sisk, T.D., & E.A. Nielsen, (2017). Wyss Foundation. (\$141,986). “Wyss Scholars for the Conservation of the American West– Northern Arizona University”. PI
- Nielsen, E.A., & S. Stortz, (2017). CPCEU/BIA/Navajo Nation (\$25,000). Canyon de Chelly Strategic Agreement. Co-PI
- Nielsen, E.A. (2016). Open Society Foundations/Ohio State University.(\$3,976) Illicit Drivers of Land Use Change. PI
- Nielsen, E.A. & McSweeney. K. (2016). NSF National Socio-Environmental Synthesis Center (SESYNC) 3 year Research Pursuit, University of Maryland (covers meeting, facilitation and computational costs, and publication costs) “Modeling the Narco-Scape: Linking illicit cocaine commodity chains with landscape change and development in the Mesoamerican Biological Corridor. PI. Funded PI travel and meeting costs for 3 years of synthesis work among 17 investigators.
- Springer, A., Nielsen, E.A., Mueller J.M., O'Donnell F & T. Sankey. (2016). National Science Foundation, *Coupled Natural Human Systems* (\$1,653,001) “Publicly-Supported Forest Restoration and Watershed Services: A Coupled Systems Analysis. Co-PI. Not funded
- Kolb, T., Beier, P., Kim, YS., Meador, A. (2016). NFS-NRT Building Expertise to manage threatened forests for food, energy and water security. Participant—Not funded.
- Wrathall, D., Radachowsky, J. & K. Benessaiah (2016). *Science and Nature Partnership (SNAP)* (\$233,890) *Vulnerability of Conservation and Development Governance in Central America*. Participant. Not Funded
- Springer, A., Nielsen, E.A., Mueller J.M., O'Donnell F..C & T. Sankey. 2015. National Science Foundation, *Coupled Natural Human Systems* (\$1,795,962) “Building an Integrated Scientific and Economic Foundation for Publicly-Supported Forest Restoration and Watershed Services. Co-PI. Not funded
- Nielsen, E.A. & K. McSweeney. 2016. NSF National Socio-Environmental Synthesis Center (SESYNC) Integration Small Workshop. “Modeling the Narco-Scape: Linking illicit cocaine commodity chains with landscape change and development in the Mesoamerican Biological Corridor. PI. Funded Travel and meeting costs
- McSweeney, K. & E.A. Nielsen. 2015. Open Society Foundations (\$250,000). “Evidence for Drug Policy Reform: Drugs, Deforestation, and Skewed Development in Rural Central America. Co-PI
- Armstrong, M., Nielsen, E.A., & M. Ort. 2015. USAID/Program for the Americas, 100K Strong Program. (\$38,909). *Geology and Policy: Energy Resources in the Americas, Now and in the Future*” Co-PI
- McSweeney, K., Nielsen, E.A. & D. Wrathall. 2014. Open Society Foundations. (\$24,639). “Research Meeting—Nodes in the inter-American Rural Cocaine Commodity Chain Working Group” Co-PI
- Nielsen, E.A. & C.B. Anderson, C. 2014. CONICET-Argentina/NSF. (\$29,000). “Understanding Biotic and Institutional Drivers that Facilitate or Constrain Watershed Restoration: A Comparative Study of Two Iconic Landscapes from Patagonia and the Grand Canyon”. Co-PI
- Nielsen, E.A. 2014. Fulbright Teaching/Research Scholar (\$13,400). “Advancing Interdisciplinary Socio-Ecological Knowledge and Capacity for Sustainability in Tierra del Fuego”. PI
- *Fletcher, N., *Emmons, I. Novak, E. & E.A. Nielsen. 2014. Salt River Project/Watershed Research and Education Program. (\$12,000). “Conservation of Northern Mexican Gartersnakes Through Ecological Research and Citizen Science at Dead Horse Ranch State Park, Arizona” Co-PI
- Nielsen, E.A., Doerry, D., Koch, G.W., & C.B. Anderson. 2013. NSF OISE-IRES. (\$249,990) “Patagonian Research Experiences in Sustainability Science (PRESS): Understanding Social-Ecological Drivers and Consequences of Global Change”. PI

- Springer, A., Nielsen, E.A., Mueller, J. 2013. NSF Water Sustainability and Climate (\$1,094,227 NAU/Overall ASU/UA \$3,999,880). "Integrated hydroecological and economic modeling to test sustainability of forested watershed services undergoing climate and management changes through demonstration watershed investment programs" Co-PI
- *Miller, R., & E.A. Nielsen. 2013. Salt River Project/Watershed Research and Education Program (\$7,400). "Understanding the effectiveness of governance structures for the Flagstaff Watershed Protection Project (FWPP)". (not funded).
- *Fletcher, N. & E.A. Nielsen. 2013. Salt River Project/Watershed Research and Education Program. (\$11,500). "Conservation and Monitoring of Northern Mexican (*Thamnophis eques megalops*) and Narrow-Headed (*Thamnophis rufipunctatus*) Gartersnakes Through Citizen Science in the Verde Valley, Arizona" (funded \$2,000 plus in-kind services in support of research)
- Nielsen, E.A. & Solop, F.I. 2012. Grand Canyon Trust, Watershed Research and Education Program, Ecological Restoration Institute. (\$8,000). "Question 405 Exit Poll". Solicited and obtained direct payment for contracting phone polling company to implement the Flagstaff Exit poll to a sub sample of early voters.
- Solop, F.I. & Nielsen E.A. 2012. College of Social and Behavioral Sciences. (\$775). "Facilitating Student engagement in exit poll research". Flagstaff AZ.
- Nielsen, E.A. and *Sauerbrey, K. 2012. Coconino National Forest. (\$10,000) "Workshops to Assess Social Acceptability for Smoke Impacts from Prescribed Fire" (no funding available).
- Downard, J. B., Nielsen, E.A. & Huntzinger, D. 2012. NSF SES-Ethics Education for Science and Engineering Program (\$299,982) "Collaborative Research: Deliberation and Communication—Building Practical Skills in the Next Generation of Environmental Scientists" Co-PI
- Kim, YS., Hofstetter, F.W. Fischer, L.A., Latifah, S., Idris, M.H. 2012. USAID (\$999,639). "Building an Innovative University Partnership Across the Pacific for Sustainable Forest Management". Nielsen-- NAU Collaborator (not funded).
- Sisk, T.D., Nielsen, E.A., & Anderson, S. 2012. Wyss Foundation. (\$699,951). "Wyss Scholars for the Conservation of the American West— Northern Arizona University".
- Halvorsen, K.E., Asbjornsen, H., Chimner, R.A. Mosley, C. & Sweitz, S.R. 2012. NSF OISE-PIRE (\$4,981,749) "OISE-PIRE Sustainability, Ecosystem Services, and Bioenergy Development across the Americas". Nielsen, E.A. senior personnel (PI on \$250,239 NAU subcontract)
- Kelly, M., & Nielsen E.A. 2012. National Park Service, CPCEU (\$50,036). "Wayside Exhibit and Interpretive Brochure Design at Sand Creek Massacre Historic Site and Bent's New Fort"
- Nielsen, E.A. 2012. National Park Service, CPCEU (\$9,989). "Incorporating TEK into Watershed Restoration Planning at Canyon de Chelly National Monument—Year 2"
- Bruening, R. 2011. Flinn Foundation (\$25,000). "Museum of Northern Arizona Futures" Nielsen Collaborator
- Nielsen, E.A. 2011. USDA/DOI Joint Fire Science Program (\$106,697). "Understanding Dimensions of Social Acceptability for Smoke Impacts from Prescribed Fire" (Not funded—invited to revise and resubmit)
- Halvorsen, K.E., Asbjornsen, H., Chimner, R.A. Mosley, C. & Sweitz, S.R. 2011. NFS OISE-PIRE (pre-proposal), "OISE-PIRE Sustainability, Ecosystem Services, and Bioenergy Development across the Americas". Nielsen, Socio-economic coordinator for pre-proposal.
- Nielsen, E.A., *Plumb, S., Wang, O., & Sesnie, S. 2011. Planet Action-An Astrium GEO initiative, (provision of approximately \$50,000 in-kind SPOT remote sensed imagery), "Cocaine Cattle and Tropical Forest Conservation"
- Wang, O., Nielsen, E.A., Sisk, T.D. 2011. NASA ROSES--Land Cover and Land Use Change (pre-proposal). "Cocaine, cattle, and deforestation: assessing underlying drivers of land cover change in Central American Biosphere Reserves" (not invited for full proposal)

- Shonnard, D.R., Donovan, R.P., Halvorsen, K.E., Solomon, B.D., & Sweitz, S.R. 2011. NSF RCN (\$749,996) “RCN-SEES: A Research Coordination Network on Pan American Biofuels and Bioenergy Sustainability”. Nielsen, participant.
- Nielsen, E.A.,* Swaffer, W. 2011. Salt River Project/Watershed Research and Education Program (\$9,871), “Building and economically sustainable restoration and monitoring plan for forested watersheds in Northern Arizona”
- Nielsen, E.A., 2011. NAU Ecological Restoration Institute, (\$24,726), “Contributing factors to a new forest restoration model”
- Nielsen, E.A. 2011. National Park Service, CPCEU (\$10,000). “Incorporating TEK into Watershed Restoration Planning at Canyon de Chelly National Monument”
- Nielsen, E.A. 2011. NAU Faculty Grants Program, (\$12,607). “Incorporating TEK into Watershed Restoration Planning at Canyon de Chelly National Monument”
- Nielsen, E.A. 2010. NAU Faculty Grants Program, (\$11,548) “REDD from the Ground Up: Indigenous perspectives on carbon management”
- Nielsen, E.A. 2010 Rainforest Alliance, (\$5,995), “REDD from the Ground Up: Indigenous perspectives on carbon management”
- Koch, G., Hungate, B., Hurteau, M., Kauffman, D. Acker, T. and Nielsen, E.A. 2010 NSF –DGE, Science Masters Program, (\$698,733), “A Professional Master’s Program in Climate Science and Solutions at Northern Arizona University.”
- Springer, A., Nielsen, E.A., Muller, J. , Zaho, X. 2010. NSF-GEO/EAR. Water Sustainability and Climate (\$149,814), “Building an economically sustainable restoration and monitoring plan for forested watersheds in Northern Arizona “
- Nielsen, E.A., Parnell, R. Hirsch, T., 2010. NAU Global Learning Initiative (\$12,000) “A Curriculum Strategy to Implement Global Learning Recommendations in the School of Earth Sciences and Environmental Sustainability”
- Nielsen, E.A. 2009. Colorado Plateau Cooperative Ecosystem Studies Unit (\$9,802), Integrating Traditional Ecological Knowledge within National Parks Service.
- Nielsen, E.A. & Ostegren, D. 2009. Colorado Plateau Cooperative Ecosystem Studies Unit, (\$29,500), NAGPRA Tribal Consultation.
- Nielsen, E.A. 2008. Faculty Grant Program (\$10,899) Getting to sustainability? A case study of tourism impacts in the Rio Platano Biosphere Reserve, Honduras (not funded)*
- Nielsen, E.A. & Butler, A. 2007. EPA Pollution Prevention Grant. (\$8,000) Student Internships Phase III.
- Carter, B. & Nielsen, E.A. 2007. At-Sea Food Processors Research Grant. (\$7,500) Science, Policy and Traditional Ecological Knowledge in the Recovery of Endangered Cook Inlet Beluga Whales, Alaska
- Nielsen, E.A. & Butler, A. 2006. EPA Pollution Prevention Grant, (\$8,000) Student Internships Phase II.
- Hale, A., Nielsen, E.A. & Rubenstein, S. 2006. Flint Hills Resources (\$70,000), Grant for establishing a sustainability leadership institute at Alaska Pacific University.
- Nielsen, E.A. & Butler, A. 2005. EPA (\$8,000), Pollution Prevention Grant for student internships.
- Wilson, M. & Nielsen, E.A. 2005. Ford Foundation Community Forestry Fellowship (\$6,900). Trust and Forest Management: A Participatory Action Research Case Study of Moose Pass, Alaska.
- Nielsen, E.A. 2003. US Fish and Wildlife Service, (\$22,000), Karluk River Visitor Use Study.
- Nielsen, E.A. 2004. US Forest Service, Collaborative Community Resource Monitoring (\$10,000).
- Machlis, G., Hockings, M., Nielsen, E.A. & Russell, K. 2003. IUCN/WPCA. Survey of 2003 WPC Delegates. (\$12,000).
- Russell, K. & Nielsen, E.A. 2002. US Army Corps of Engineers, Walla Walla District. Organizational Change and Conflict Management. (\$4,000).

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Nielsen, E.A. 2001. The Nature Conservancy Ecotourism & Community Conservation Program, Arlington, VA. Community-based ecotourism study: Río Plátano Biosphere Reserve. (\$6,000).
 Nielsen, E.A. 2000. US Department of State, Washington D.C., PhD Fulbright Fellowship. (\$14,500).
 McLaughlin, W.J. & Nielsen, E.A. 1998. Organization of American States, Washington D.C. Inter-American Strategy for Public Participation in Environmental and Sustainable Development Decision-making in the Americas (\$15,000).
 Nielsen, E.A., McLaughlin, W.J., Harris, C.C. & Becker, D.R. 1998. US Army Corps of Engineers, Walla Walla District. Interactive Community Fora Impact Study (\$152,459).
 Nielsen, E.A. & Foster Wheeler Environmental Corp. 1997. US Army Corps of Engineers, Walla Walla District. Social and Regional Impact Analysis. Obtained funding and managed subcontractors (\$150,000) and overall contract (\$253,000).

ACADEMIC TEACHING EXPERIENCE

Associate Professor/Assistant, School of Earth Sciences and Environmental Sustainability.

Northern Arizona University, Flagstaff. August 2008—present. Designed, delivered and improved eight different undergraduate and graduate courses. Courses integrated multiple learning styles and active learning through projects for community clients, service learning, independent case studies, group projects, intensive writing and field-based learning. Web based and other technologies used to expand the learning environment and provide new avenues for interaction and engagement. Courses delivered supporting core curriculum in the Environmental Studies, Environmental Sciences, M.S. Climate Science & Solutions, M.S. Environmental Sciences & Policy, and interdisciplinary SESES PhD degree programs including:

Graduate Level:

- ENV/POS 555: Environmental Sciences and Policy Interface (3 credits) (avg. 30 graduate students) Core team taught course for MS ES&P and SESES PhD. Examines the generation of scientific knowledge and how that knowledge is presented, evaluated, manipulated, and applied as political forces shape environmental policy. (F11, F12, F13, F14, F16, F19)
- ENV 699/650: Global Resource Conservation (3 credits) (avg. 10 students from forestry, biology, climate science and environmental science). Newly developed course that examines biological and physical nature of global environmental changes (e.g. climate and forests) and the social, political, economic, cultural and historic contexts in which they originate with a particular emphasis on the developing world. (S09, S10, F11, F14, F16, F18, F19, F21)
- ENV 675: Topics in Environmental Discourse. (2 credits) (avg. 18 students). Newly developed course on energy policy and climate science, develop and facilitate 2 public discourse events. (S15, S16, S17, S18, S19, S20, S21)
- ENV 698: Research Methods in Environmental Science (1 credit) (avg. 8 students) Newly developed course for MS ES&P students to explore interdisciplinary research methods. (F09)
- EES 605/606: Research Methods in Earth Sciences and Environmental Sustainability (18 students. (F17, S18, F18)
- ENV 599/520: Collaboration in Environmental Management (3credits) (avg. 15 graduate students from Forestry, Biology, CS&S and ES&P) Newly developed course that explores theoretical and applied concepts of collaboration and conflict resolution in both public and private sectors of natural resource and environmental management; historical and legal mandates, government agency responsibilities, applied methods and techniques, case studies, and hands-on experience. (F10, F12, F13, F20)
- ENV 698: Environmental Social Science and Policy (1 credit) (avg 5 students) New course to integrate social science and policy theory and research methods into MS thesis work. (F11, F12, F13)

- ENV 599: Energy Resources, Geology and Policy (US and Argentina) (3 credits). New course funded by USAID 100K Strong Program (F15, S16)
- Faculty course, National University of Tierra del Fuego, Interdisciplinary Team Teaching for Sustainability (S 2016)
- ENV 698: NEPA: Environmental Impact Statements. Organized and helped deliver short course to graduate students in response to student demand for this training (S2022)

Undergraduate

- ENV 181: Environmental Sustainability (3 credits) (avg. 83 students) Introductory core team taught environmental studies course that examines the ways in which we perceive the environment: how our environment is structured and functions, how we relate to the environment and environmental sustainability from humanistic, cultural and political perspectives, and how we resolve major issues focusing on the sustainability of our natural and cultural systems. (F08, F09, S11, S12, S13, F13)
- ENV 385W and Lab: Energy Resources and Policy (4 credits) (avg. 28 students). Co-taught Required core junior level writing intensive course for environmental science majors that addresses the science-policy interface by exploring the origins and exploitation of energy and mineral resources, and the policies and politics that control how we obtain and use them. Include a faculty supervised lab (S09, S10, S11, S12, S13, S14, S15, S17, F17, S18, F18, S19, F19, S20, F20, S21, F21, S22, F22, S23)
- ENV 301W ST: Systems, Sustainability, and You (3 credits) (avg.15 students) Newly developed required junior level environmental studies writing course that explores linked social and ecological systems in pursuit of sustainable solutions (F09, F 10)
- ENV 399: Geology, Energy Resources and Policy (3 credits) (8 students). International course delivered in Spanish with half of field content in the Four-Corners region of Southwestern US and half in Northern Argentina. Cross cultural examination of energy and geology challenges and opportunities. Course development funded by grant from USAID, 100K Strong program (F 2015)
- ENV 490C: Environmental Science and Sustainability Capstone (3 credits) (S22, F22, S23)
- ENV 497: Patagonian Research Experiences in Sustainability Science. (1 credit) Course for students preparing to spend a semester conducting research in Patagonia with Argentine faculty mentors. Guided research proposal development and engaged with Argentine mentors. (Funded with support of NSF grant) (F14, F15)

International Teaching

- Vinculación de las dimensiones humanas y naturales de los sistemas socio-ecológicos para mejorar su investigación y conservación. CONICET/Universidad Nacional de Tucumán, Argentina (Summer 2015) Invited graduate instructor, Facultad de Ciencias Naturales

Invited Guest Lecturer, Northern Arizona University (invited guest lectures in 4 academic units)

Selected Courses

- *ENV 181 Sustainable Energy and Climate Change Mitigation (F22, S23)*
- *CM 403, Sustainable Design and Construction (F22, S23, F23)*
- *ENV 555, Environmental Science Policy Interface, “Corruptions of the Policy Process” (F08, F09, F10, F16, F17, F18, F21, F22, F23)*
- *ENV 115, Climate Change, “Global Climate Governance” (S13, F 13, S14)*
- *FOR 690, Research Methods in Forestry (F23)*
- *ENV 230, Intro to Environmental Science, “Economics and Environmental Policy” (F08, F09, F13, F14, F16, F17, F18)*

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- *ENV 280/360, Hydrosphere and Atmosphere,*
 - “Montreal Protocol-Ozone Policy” (F08, F09, F10, F11, F12, F13, F14)
 - “Kyoto Protocol—Climate Policy Tools”(F08, F09, F10, F11, F12, F13, F14)
- *ENV 299, Environmental Conservation of Colorado Plateau, “Traditional Ecological Knowledge and Management at Canyon de Chelly” (Summer 12)*
- *ENV 301W, Systems, Sustainability &You, “ Market Failure and Sustainability” (F11, S12, F12, S13, F13, S14, F14, S15)*
- *ENV 375, San Juan “Ecosystem Management and Water Policy on the San Juan” (S09, S10)*
- *ENV 499 UMEB/REU Seminar, “Traditional Ecological Knowledge and Science” (S10, S11, F12)*
- *ENV 595, Global Climate Change “Policy Approaches to Global Climate Policy” (F08, F09, F10, F11, F12, F13)*
- *ENV 598, Environmental Science Research Methods,*
 - *Qualitative Research Methods (F10, F11, F12)*
 - *Funding sources for Environmental Science Research (F10, F11)*
- *ENV 698, Landscape Ecology and Conservation Biology, “Narcotrafficking as an Underlying Driver of Tropical Deforestation in Honduras ” (S13)*
- *ENV 675-Topics in Environmental Discourse, Conflict and Collaboration/Energy Efficiency Policy (F13, S14, F14)*
- *EES 605, Regional Topics in Earth and Environmental Science and Policy, “Mining Policy and Sustainability Reform” (F 12, F13, F14, F16)*
- *GLG 698, Water, Climate and Sustainability, “Incentives for Watershed Services”(S 13)*
- *FOR 382/582 Ecological Restoration “Collaboration and Social Perspectives of Forest Restoration”(F09, F10, F11)*
- *FOR 423 Senior Seminar D, “Collaboration in Ecosystem Management”(S 09)*
- *FOR 415/515 Forestry in Developing Countries “Community-based Conservation in Central America”(S12, S13, S-14)*
- *FOR 698 Wildlife Ecology “Drivers of Deforestation” (F 11)*
- *SUS 695, Achieving Sustainability “Measuring Sustainability”(S09, F23)*
- *POS 455/555 Political Ecology. “North-South Dimensions of Environmental Justice in International Conservation”(S10)*

Assistant Professor, Environmental Science Department. Alaska Pacific University, Anchorage, June 2006—July 2008 (Instructor since 2003). Designed and implemented a wide array of environmental policy, planning, interdisciplinary environmental science research methods and international conservation courses.

Graduate Level

- *Interdisciplinary Environmental Science Research Methods (F03, F04, F05, F06, S07, F07)*
- *International Conservation (F03, F04, F05, F06, F07)*

Undergraduate Upper-division

- *Land Use Planning and Policy (S04, S05, S06)*
- *Ecological Economics (S04, S06, F06, S07)*
- *Conservation Biology, co instructor with Dr. Carl Tobin (S05, S06)*
- *Tropical Ecology, co instructor with Dr. Roman Dial — Travel Study to Borneo (Jan 05, Jan 07)*
- *Sustainable Development Policy and Practice — Honduras Travel Study (May 06)*
- *Environmental Policy and Law (May05, S07)*

- *Environmental Leadership and Advocacy* (S05, S07)
- *Sustainable Conservation Practices —Travel Study to Guatemala, Honduras & El Salvador* (May 04)

Instructor/Teaching Assistant, University of Idaho, Moscow

- *Teaching Assistant, “Public Involvement in Natural Resource Management”* (S99, S02)
- *Instructor, Environmental Science, “Human Dimensions of Global Environmental Change”* (F02)
- *Co-Instructor, “Interdisciplinary Natural Resource Problem Solving”* (S00& F02)
- *Teaching Assistant, “Resource Recreation and Tourism Planning”* (S02)
- *Instructor, “International Land Preservation Systems”* (F99)
- *Co-Instructor, “International Issues in Nature Conservation: Resident Peoples and Protected Area Management”* (F98)

Invited Guest Lecturer, University of Idaho, Moscow

- *Environmental Non-Governmental Organizations, “Dynamic relationships between international donor NGOs and regional NGOs: Implications for conservation projects”* (F02)
- *Natural Resource Economics, “Benefit-Cost Analysis & Salmon Recovery”* (F00, F02)
- *Society and Natural Resources, “Trade-offs for Salmon Recovery”* (F99, S00, F02, S02, S03)
- *Conservation Biology, “Biodiversity Protection and Human Needs”* (S00, S02)

Teaching Assistant, Department of Public Policy, Rutgers University, Camden “Environmental Problems: Biological, Social and Political Perspectives” (F90)

Teaching Assistant, Department of Political Science, University of California at San Diego, CA. “Modern American Political Theory” (S89)

STUDENT ADVISING/MENTORING

Completed NAU Graduate Students

Christian Fauser, MS ES&P, Thesis Policy member, *Barriers Beget Barriers: The Political-Ecological Drivers and Consequences of Fish Barriers in Aquatic Invasive Species (AIS) Management*. (May 2023)

Oluwatosin Ayodele, MS Sustainable Communities Thesis Chair, *Recommendations for Solar Photovoltaic Systems Policies in Nigeria: A comparative Policy Analysis*. (December 2021)

Caitlyn Sutherland, MS ES&P policy advisor/committee member, *Evaluating Methods to Account for Soil Organic Carbon Stock Changes in Agricultural Lands*. (June 2021)

Tasha Nez, MS ES&P, Thesis policy member. *Cove Mutton Consumption Survey: Policy Insights to address uranium contamination of Navajo Traditional Mutton*. (May 2021)

Miles Dunlop, CSS research, Research chair—*Developing a fleet decarbonization transition plan for NAU* (May 2021)

Emery Cowan, MS ES&P, Thesis co-chair, *New Hands in Public Lands Management: The Role and Influence of non-agency partners in Forest Service Stewardship Agreements* (May 2020)

Leah Manak, MS ES&P, Thesis chair, *The effects of narcotrafficking on forest conservation initiatives and sustainable development in Honduras* (July 2020)

Natalia Shaw, MS ES&P, Thesis Chair, A hydrological and cultural analysis of water resources in Canyon de Chelly Watershed, Navajo Nation, AZ (December 2019)

Karin Wadsack, PhD, Policy committee member, SESES Power System Modeling of Energy Storage and Climate Change: Implications for the Clean Air Act (December 2018)

Ashley Renee Sanders, MS ES&P, Thesis chair, Community Valuations, Perceptions and Judgements of Eucalyptus Plantation Impacts in Ubajay and La Criolla, Entre Rios Argentina (May 2018)

Miranda Perrone, MS ES&P, Thesis co-Chair, Mapping Land Management Agency Resilience in the Sonoran Desert Ecoregion (May 2018)

Jesse Weber, MS ES&P, Committee member, Collaboration for Forest Management: Practitioner Perceptions of Organizational Role Specialization. (April 2017)

Martha Sample, MS ES&P, Committee member, Exotic Conifer Removal in Patagonia, Argentina: Ecological Outcomes & Management Evaluation (December 2016)

Chelsea Silva, Thesis chair, MS ES&P, Community Perceptions of Ecosystem Services and Human Well Being from Tree Plantations in Argentina (January 2016)

Roy Miller, Thesis chair, MS ES&P, Linking Payments for Watershed Services and Wildfire Risk Mitigation: Institutional Design and Governance of the Flagstaff Watershed Protection Project (FWPP) (October 2015)

Noelle Fletcher, Thesis co-chair, MS ES&P, Evaluating the Effectiveness of Citizen Science in Aiding the Conservation of Two Declining Gartersnake Species in Arizona's Verde River Watershed. (December 2015)

Ryan Lima, Thesis policy member, MS ES&P, Valuation of Hydraulic Services in Northern Arizona and Implications for the Management of Public Lands (May 2016)

Jessica Conboy (Sweitch), Policy Advisor/committee member, MS ES&P, Modeling and Monitoring Changes in the Terrestrial Carbon Cycle" (May 2015)

Shodigul Mamadyorbekova, Thesis chair, MS ES&P, "A Comparison of Water Governance on two Trans-boundary Rivers: The Nujiang/Salween and Mekong Rivers", (September 2014)

Rachel Sheridan, Committee member, MS Forestry, "Identifying socio-ecological linkages to develop a community fire plan in Mexico" (April 2014)

Sasha Stortz, policy advisor/co-chair, MS ES&P, "Participatory Analysis in Natural Resource Management: Legitimacy, Learning and the Production of Actionable Science" (April 2014)

Katie Sauerbrey, Thesis chair, MS ES&P, "Understanding Dimensions of Social Acceptability for Smoke Impact from Prescribed Fire" (November 2013)

Whitney Rooney, Thesis chair, MS ES&P, "The effects of Environmental Science Courses on Students' Values, Hope and Confidence" (November 2013)

Tanya Henderson, Thesis chair, MS ES&P, "Integrating Traditional Ecological Knowledge into Watershed Restoration at Canyon de Chelly National Monument (December 2013)

Heather Farley, committee member, PhD, Politics and International Affairs, Interpreting Sustainability: An Analysis of Sustainable Development narratives among developed nations (November 2013)

Dominique Bain, policy advisor/committee member, MS ES&P, "Wind Energy: Modeling Implications and Influences on Policy Decisions (Sept. 2013)

Windy Greer, Thesis chair, MS Forestry, "Power Dynamics at Multiple Structural scales in Collaborative Forest Management: Analysis of the Four Forest Restoration Initiative" (July 2012)

Wes Swaffar, Thesis chair, MS ES&P, "Linking Forest Restoration and Watershed Services: Investigating Payment for Watershed Services in Northern Arizona" (May 2012)

Colleen Sorensen, committee member, MA Sustainable Communities NAU, "Citizen-led Infrastructure Building and Sustainable Social Change through Community Gardens (May 2012)

Cerissa Hoglander, policy advisor/committee member, MS ES&P, “Developed Waters for Wildlife Conservation: Collaborative Approaches and Landscape Models for Desert Bighorn Sheep (*Ovis Canadensis Mexicana*) Conservation (May 2012)

Spencer Plumb, Thesis chair, MS ES&P, “Forest Carbon Management in Indigenous Territories: A Case Study of REDD+ Opportunity Costs and Indigenous Perspectives on Governance in the Rio Platano Biosphere Reserve, Honduras” (December 2011)

Tony Chang, Thesis chair, MS ES&P, “A Quantitative Review of the Quality of Environmental Impact Assessments for Wind Energy Developments” (May 2011)

Cristina Gonzales-Maddox, Thesis co-chair, MS ES&P, “Geochemical Characterization and Bioaccessibility Assessment of Toxic Metals in Windblown Dust From Uranium Legacy Sites” (July 2011)

Chris Ray, policy advisor/committee member, MS ES&P, “Predicting the Effects of Forest Management Policies on Goshawk Occurrence in Northern Arizona Ponderosa Pine” (June 2011)

Amy Larsen, committee member, MA Science Teaching, “Climate Change and Science Education” Portfolio (September 2010)

Moran Henn, Thesis co-chair, MS ES&P, “Traditional Ecological Knowledge within the National Park Service: Attitudes and Perceptions of TEK among Superintendents and Resource Managers in the Western Regions” (August 2010).

Vince Mariola, Thesis chair MA in Sustainable Communities, “Assessing the Sustainable Development Contributions of Forest Carbon Offsets”(May 2010)

Loren Mork, MS ES&P, policy advisor/committee member, ‘Livestock Grazing After Wildfire: Understory Response, Current Management, and Implications for Conservation of Southwestern Forests”, (May 2010)

Jamie Quisenberry, MS ES&P, policy advisor/committee member, ‘Modeling the Effects of Climate Change on Reclaimed Water” (May 2010)

Carrie Cultra, MS ES&P, policy advisor/committee member, “The Value and Viability of Monitoring by a Collaborative Group: Evaluating Integrated Monitoring for Sustainability”, (May 2010)

Hanna Soltow, MS ES&P, policy committee member ,“A 14k Year Vegetation and Fire History from Hermit Lake, Colorado”, (May 2009)

Brian Carter, Thesis Chair,” Policy and Traditional Ecological Knowledge in the Recovery of Endangered Cook Inlet Beluga Whales, AK” (2010) Alaska Pacific University MS Environmental Science

Cody Alf, Thesis co-chair, Mapping Inupiat Resource Values and Uses in the Beringa Land Bridge National Preserve, AK (2009) Alaska Pacific University MS Environmental Science

Ongoing NAU Graduate Advising

Roberto Heredia, Thesis Chair, MS ES&P

Wilda Anagel, PhD Chair, SES

Andee Lister, PhD committee member, SES

Phoenix Eskridge-Aldama, PhD committee member, SES

Brandon McNamara, PhD Committee member, SES

Jessica Archibald, PhD committee member, SES

Deon Ben, Thesis co-chair, MS ES&P

Daniel Whirlwind Solider, Thesis co-chair, MS ES&P (leave of absence)

Catherine Roulier, PhD Committee, Centro Austral de Investigaciones Cientificas

Other NAU Graduate Advising/Mentoring:

- Barrett Prize Submissions—mentored two student groups to submit ecosystem service conservation business plans for national competition (Fall 2012-present)

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- External dissertation exam committee member, David Forest, PhD Politics and International Affairs, NAU– (Spring 2012)
- Faculty Mentor/Advisor, Grand Canyon National Park Science Interns, Amy Larsen and Avi Henn, 2009-2010

NAU Undergraduate Sr. Research

Octavio Alocer (Spring 23-Fall 2023)—Impacts of Illicit roads analysis
 Shelby Oliver (Summer 2023)—energy star benchmarking NAU buildings
 Mia Chavez (2021-2022)—Spatial dynamics of narco infrastructure
 JJ Brown (summer-Fall 2022)—Energy Efficiency building audits
 Vanessa Moldenado (2021-Fall 2022) Dynamics of Illicitness in Central America
 Valeria Perez (summer 2022-Fall 2022)—Narco trafficking media analysis
 Aaron Gannon (2019-2020), Alternative models for City of Flagstaff renewable energy procurement.
 Tucker Famiglietti (2019-2020), Spatial Analysis of narcotrafficking in Central America
 Kevin Alvarez (2019-2020), Media Analysis of Narco trafficking in Honduras
 Emily Martin (2019), Energy Efficiency testing at NAU
 Rafael Ramirez (2017-2018), Nicaragua Media Analysis
 Ryan Tsigne (2017-2018), Legal analysis of co-management at Canyon de Chelly National Monument
 Leah Manak (2015-2016), GSEP/ PRESS and governance research
 Alana Weber (2015-2016) GSEP/PRESS and media analysis research
 Hanna Russell (2016) Environmental Science Media Analysis
 Madeline Friend, (2013-2014)
 Tanika Lynn Connesero-UMEB Fellow Advisor (2009-2010)
 Justine Miller (2008-2009)
 Chloe Fae Bovoletis (2008-09)

Undergraduate Mentoring and Advising: Advised on Average 23 students per year prior to 2012.

Previous Advising at Alaska Pacific University

M.S. Environmental Science-Alaska Pacific University, Thesis Major Professor

Brian Carter, Science, Policy and Traditional Ecological Knowledge in the Recovery of Endangered Cook Inlet Beluga Whales, AK (2010)

Cody Alf, Mapping Inupiat Resource Values and Uses in the Beringa Land Bridge National Preserve, AK (2009)

Stephanie Behne, Municipal Land Use Policy, Quality of Life & Developer Attitudes, Anchorage, AK (2007)

Evelyn Yobera, Politics of the North-South Divide at the World Parks Congress (2006)

Meghan Wilson, Trust and Forest Management: A Participatory Action Research Case Study of Moose Pass, Alaska (2006)

Penny Bauder, Conflict on the Karluk River, Kodiak National Wildlife Refuge (2005)

Kathleen Dunkle, Environmental Education, Integrative Complexity and Environmental Attitudes in Problem-based Curriculum (2005)

Melissa Cintron, A Comparison of Park Users' Behaviors, Perceptions and Attitudes at Off-Leash and On-leash Parks in Anchorage, AK (2004)

Amy Lewis, Karluk River Visitor Use Study, Kodiak National Wildlife Refuge (2004)

M.S. Environmental Science Alaska Pacific University-Committee Member

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Maryann Smith, MSES, Alaska Pacific University, Assessing Dispersed Campsites and Exploring Camper's Perceptions in Western Prince William Sound, AK.(2010)
Kelly Melilio, Interspecific interactions & hybridization in dolphins (2007)
John Schick, Modeling Land Use Change 1970-2005 in the Mat-Su Valley, AK (2006)

Environmental Policy and Planning Major, Alaska Pacific University—Senior Thesis Project Advisor

Laura Willoughby, Wind Energy Feasibility Study for the APU Kellogg Farm (2008)
Jill Donaldson, Campus Toxic Substance Inventory, Green Chemistry Alternatives, and Campus Purchasing Policy (2008)
Marianne Profita, A Policy Analysis of USFS Human-Bear Management on the Russian River, AK (2007)
Elizabeth Baldwin, Environmental Site Assessment: Kellogg Farm Campus (2007)
Douglas Reynolds, Survey of Aquatic Macro-invertebrates in the Rio Platano, Honduras (2006)
Colin Quinn-Hurst, Transportation Demand Management and Policy in the Anchorage U-Med District (2005)
Christian Breen, Public Involvement in Controversial Management Decisions in the Alaskan National Parks (2005)
Lori Roy, Feasibility of Wind Energy in the Anchorage Bowl (2005)
Venus Vargus, Paper Recycling Audit and Survey of Attitudes on the APU campus (2005)
Colin McDonough, A Test of Policies to Increase Recycling Rates on the APU campus (2004)
Jessica Diaz, Evaluating the Effects of a Travel Study Experience in El Salvador (2004)

EXTENSION AND SERVICE

NAU Department/School and Collegiate Committees and Service

Chief Sustainability Officer (01/06/23-present)
Chair, Presidential Climate Action Roadmap Taskforce (09/01/22-12/01/22)
NAU Master Plan steering committee (8/22-11/23)
NAU Environmental Caucus and Steering Committee Chair (09/01/19-01/23/23)
Olajos-Goslow environmental science and policy endowed chair search committee (9/20-5/21)
NAU Climate Action Plan Steering Committee (9/19- 05/22)
Office of Sustainability, Sustainability Manager search committee (2/21-5/21)
Office of Sustainability, Purchased electricity consultant steering committee (8/22-5/23)
Office of Sustainability, Data analyst search committee (8/22-12/22)
Office of Sustainability, Conservation programs search committee (2/23-6/23)
Office of Sustainability, Energy and Water Manager search committee (2/23-5/23)
SES Environmental Policy Search Committee (09/21-05/22)
SESES Conservation Social Scientist Search Committee Chair (09/16-05/17)
Chair, Wyss Scholarship Committee (08/08-present)
Marshall Scholarship Interview Panel (Fall 2016)
SESES Climate Science and Solutions Graduate Committee, (09/09-05/19)
NAU Energy Action Team committee member, Evaluating Sustainable Energy options for campus for climate action, (9/14-present)
NAU Academic Sustainability Committee, revise NAU Climate Action Plan (09/14-present)
MS ES&P Graduate Coordinator, (07/10-12/12 and 09/16-09/2019)
CEFNS Curriculum Committee Member, SESES representative (09/09-05/15)
SESES/SUS/SBS Water/Agriculture Sustainability Search Committee (09/14-04/15)
MS ES&P Graduate Committee member, (08/08-09/14)
MS Climate Science and Solutions Acting Coordinator (01/14-05/14)

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SESES Environmental Programs Curriculum Committee (09/12-05/13)
 SESES Climate Science Search, Committee Member (10/10-03/11)
 CSE/SES Director Search Committee Member, Northern Arizona University (01/09-03/09)
 Organizer, community science lectures “Tamarisk Leaf Beetle and Southwest Willow Fly
 Catcher” 2010 and 2012 in coordination with the Grand Canyon Trust and SESES.
 NAU Environmental Caucus, Presidents Climate Commitment Committee, Northern Arizona
 University (12/08-10/10)
 SESES Global Learning Initiative Committee Member, (06/10-12/10)
 Discover NAU, ENV Programs Faculty Representative--one Saturday per year
 NAU Gateway Transfer Advising
 NAU National Teach-In on Climate Change, (02/09)
 Politics and International Affairs External Review Participant from Interdisciplinary programs
 (04/13)

External Committees and Service

Biomass Utilization Coalition founding member (January 2023-present)
 Panel Peer Reviewer, Environmental Science, Fulbright U.S. Scholar (9/15/21-11/15/21)
 Science Advisor, Miskito Indigenous Federation, Organized international panel of scientists to
 review social, economic and environmental impacts of proposed dams on the Patuca River
 Honduras. (February 2011-present)
 Panel Organizer, Applying Traditional Ecological Knowledge in Resource Management
 Programs on the Colorado Plateau, 15th Biennial Conference of Science and Management
 on the Colorado Plateau and Southwest Region, (October 5-8th, 2015)
 Intervenor, Arizona Corporation Commission, submit legal briefs in water and wastewater rate
 case for the Bellemont community (07/14-2/16)
 Associate Editor, Natural Areas Journal. (07/2010-2015)
 Invited External Reviewer—NSF Early Career proposal (F 2014)
 Invited External Reviewer McIntire-Stennis proposals, Colorado State University Werner
 College of Natural Resources. (04/2012-05/2012)
 Committee Member/Advisor, 4 Forest Restoration Initiative, member of socio-economics
 science and monitoring working group and advisor to working group developing annual
 evaluation of collaborative performance. (10/2010-present)
 Moderator, Four Forest Restoration Initiative Community Restoration Panel. (05/12)
 Advisory Group Member, Forest Stewardship Council. (07/09- 09/10)
 Founder, International Coordinator, and President, “ECOS Río Plátano” (Education for
 Conservation Organization), *Honduras*. Founded a voluntary nonprofit organization
 dedicated to building conservation effectiveness by investing in social capital formation
 through educational opportunities for indigenous youth in the Río Plátano Biosphere
 Reserve. Incorporated the new NGO, developed a web page, raised over \$40,000 and
 obtained 501c(3) non-profit status. (02/01—present)
 Member/Advisor, Honduran Conservation Coalition. Founding member of science-driven,
 community-focused conservation in Honduras. (09/11-present)
 Chair, Campus Sustainability Committee, *Alaska Pacific University*. Founding member and
 chair of faculty, staff and student committee to assess, advise, and coordinate university
 sustainability policies and initiatives. (08/04-07/08)
 Director, Master’s of Science in Environmental Science Program, *Alaska Pacific University*.
 Developed graduate handbook, counseled prospective students, reviewed applications,
 taught research methods course, and managed \$50,000 budget. (10/06-07/08)

Director, Environmental Policy and Planning Major, *Alaska Pacific University*. Revised curriculum to better reflect planning skills necessary for undergraduates in environmental planning. (08/03-present)

Graduate Program Representative, GIS Research Grants Committee, *Alaska Pacific University*. Reviewed proposals for \$8,000 annual research funding for graduate research involving GIS and GPS. (08/05-present)

Graduate Studies Committee, *Alaska Pacific University*. Review university graduate education policies and curriculum. (06/07-present)

Registrar's Committee, *Alaska Pacific University*. Advise and make decisions on student status and appeals to Registrars office. (08/03-08/06)

Volunteer Scientist, Cangrejal Hydroelectric Project, *Honduras*. Provided EIS expertise to local community organizations reviewing draft EIS for a mid-size hydroelectric project on the Cangrejal River. (03/99—present)

Graduate Council, Graduate Student Representative, *University of Idaho*, 1998-2000.

Graduate Student Council, Departmental Representative, *University of Idaho*, 1998-2000.

Peace Corps Volunteer, Protected Area Management, *Honduras* 1991-1995.

HONORS AND AWARDS

- **University Sustainability Leadership Award**, Northern Arizona University, 2021
- **Faculty Sustainability Leadership Award**, Northern Arizona University, 2020
- **Fulbright Scholar**, US Department of State. Argentina 2015-2016.
- **NAU Louie Award Nominee** by undergraduate students for “Exceptional Award”, 2011.
- **NAU President's Award Nominee** by ES&P Graduate Students, 2011.
- **Faculty Merit Award for Outstanding Research, Scholarship & Creativity**-Alaska Pacific University, 2005.
- **Development Assistance Award**-Alaska Pacific University, 2005.
- **Rookie of the Year Award**-Alaska Pacific University, 2004.
- **Outstanding Graduate Student Award**-College of Natural Resources, University of Idaho, 2003.
- **Outstanding Graduate Student Award**-Department of Conservation Social Science, University of Idaho, 2003.
- **Fulbright Fellow**-US Department of State. Honduras, Nicaragua, and Guatemala, 2000-2001.
- **Outstanding Graduate Student Award**- Rutgers Alumni Association, 1996.
- **Walter Rand Award-Excellence in Policy Analysis**- Dept. of Public Policy, Rutgers University, 1996.
- **Pi Alpha Alpha**, National Honorary Society for Public Affairs and Administration, 1995.
- **Community Service Award**- Juvenile Resource Center (JRC), Camden, NJ, 1991.
- **Greenberg Academic Scholarship**- Rutgers University, 1990.
- **Dean's Award for excellence in scholarship, leadership, and service**- University of California at San Diego, 1990.

PROFESSIONAL MEMBERSHIPS, ASSOCIATIONS, and INVOLVEMENT

International Association for Society and Natural Resources (1997 – present)

Society of Conservation Biology (2005-2010)

Returned Peace Corps Volunteers Association: Sustainable Development Committee (1996-2004)

Mesoamerican Society for Biology and Conservation (2005-2010)

International Society for Ecological Economics (1997-2000)

Rural Sociological Society (1998 – 2000)

Erik A. Nielsen: Northern Arizona University, Oct 2023

LANGUAGES Spanish: Advanced High

MEDIA

Interviews with U.S. media

- Arizona Daily Sun: [Drug trade destroying forests](#)
- NBS News Digital: [Drug traffickers deal lethal blow to Central American forests, study says](#)
- Newsweek: [Narcos In The Mist](#)
- ClimateWire: [Drug traffickers drive up deforestation in Central America—study and Community rights are important in curbing drug-fueled deforestation – study](#)
- National Public Radio: [Narco Traffickers Slash Protected Rainforests \(radio\)](#)
- Christian Science Monitor: [Drug trafficking in Central America wreaking havoc on forests, study finds](#)
- EcoAméricas Magazine: [Central American forest falling to drug traffickers](#)
- Thomson-Reuters: [Central America forest tribes fight cocaine trafficking “tsunami” – report](#)
- Al Jazeera-America: [Honduran indigenous groups caught in crosshairs of global drug trade](#)
- CBS Radio-San Francisco
- Guardian: <https://www.theguardian.com/world/2023/aug/17/honduras-moskitia-forest-krausirpi-narco-highway>

Selected research coverage by U.S. and international media

- New York Times: [Lawlessness Is Undoing Effort to Save Honduran Forests](#)
- National Geographic Online: [Drug Trafficking Poses Surprising Threats to Rain Forests, Scientists Find](#)
- www.io9.com: [How Drug Trafficking Worsens the Problem of Deforestation](#)
- National Geographic Radio: [National Geographic Weekend Radio Show #1417 \(radio\)](#)
- Futurist Magazine: [Drug Traffickers Blaze New Trails in Central America’s Rain Forests](#)
- Conservation Magazine: [The disturbing link between cocaine and deforestation](#)
- Motherboard/VICE: [How Indigenous Tribes are Fighting the Drug Cartels](#)
- Deutschlandfunk (German radio): [Narko-Kartelle lassen Regenwald abholzen \(radio\)](#)
- Der Standard (Austria): [Kokainschmuggel frisst den Regenwald](#)
- NTN24TV (Colombia): [Narcotráfico aumenta la deforestación \(video\)](#)
- Austrian Public Radio (Austria): [Drogenhandel zerstört Regenwälder \(radio\)](#)
- BBC News (UK): [Drug smugglers boost deforestation](#)
- CBC Radio (Canada): [As it happens \(radio\)](#)
- La Razón (Spain): [Las drogas matan... el bosque](#)
- Le Monde (France): [Le narcotrafic dévaste les forêts tropicales d'Amérique centrale](#)
- Radio France Internationale: [Comunidades indígenas se organizan contra el narcotráfico](#)
- Tico Times (Costa Rica): [Protecting indigenous land rights could help deter drug trafficking in Central America, says new report](#)
- Deutsche Presse Agentur (German news wire): [Drogenhandel lässt Regenwälder schrumpfen](#)
- Deutsche Presse Agentur-Spanish: [Expertos alertan sobre impacto de narcotráfico en selvas tropicales](#)
- Die Tageszeitung (Germany): [Wie Schnee, der Zypressen fällt](#)

- Guardian (UK): [Deforestation of Central America rises as Mexico's war on drugs moves south](#)
- El Universal (Mexico): [Los traficantes eliminan bosques](#)
- El Heraldo (Honduras): [Narcos han deforestado cinco millones de hectáreas en Honduras](#)
- Agencia EFE (Spanish news wire): [Comunidades mesoamericanas luchan por los bosques afectados por el narcotráfico](#)
- El País (Spain): [La narco-deforestación arrasa Centroamérica](#)
- GuateVisión (Guatemalan TV): [Narcodeforestación en Centroamérica \(video\)](#)
- El País (Costa Rica): [Narcotráfico trasladó “el salvaje oeste” a Centroamérica](#)
- Diario CRHoy (Costa Rica): [Narcotráfico atemoriza con vuelos sospechosos y presencia de desconocidos las zonas indígenas de Costa Rica](#)
- Agence France-Presse (French news wire): [Comunidades indígenas se organizan para hacer frente a los narcotraficantes](#)
- CB24.tv (Costa Rica): [Comunidades indígenas de Centroamérica y México se organizan para enfrentar a narcotraficantes \(video\)](#)
- Periodismohumano.es (Spain): [Poder indígena vs. narco deforestación](#)

Other Interviews with US Media

- NPR/KNAU: Inquiring Minds [Tropical Deforestation and Carbon Offsets](#)
- Wilderutopia.com Blog: [Rio Platano Deforestation](#)

Contributions to Media

- Documentary—Paradise in Peril <http://vimeo.com/26209577> advised and data used/credited in video

Contributions to Federal Funding

<https://www.federalgrants.com/Understanding-the-Environmental-Harm-Resulting-from-Criminal-Organizations-Activities-and-their-Facilitators-in-Latin-America-and-the-Caribbean-93737.html>