

ERIN MCANALLY-TREJO

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EDUCATION

Northern Arizona University- Flagstaff, AZ

- 2020 Graduate, Masters of Science in Environmental Engineering
Thesis: A Manuscript for Addressing Climate Fragility Risks in Transboundary Water Projects: Operationalizing Risk in the Lake Chad Basin and Beyond
 - 2018 Undergraduate, Bachelors in Environmental Engineering
 - 2018 Undergraduate, Bachelors in Modern Languages Spanish emphasis
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WORK AND RELEVANT EXPERIENCE

Energy & Water Manager- Northern Arizona University- Flagstaff, AZ, 06/2023- Present

- Provide recommendations for energy efficiency projects on campus to help reach carbon neutrality
- Create a building level prioritization structure based on energy use intensity for interventions
- Perform building level energy audits to achieve holistic, deep energy retrofits
- Identify and implement low to no-cost water and energy efficiency solutions to reduce consumption and costs

Capital Improvements Project Manager- City of Flagstaff- Flagstaff, AZ, 10/2022- 06/2023

- Managed 6 Capital Improvement Projects in various stages of completion requiring a high degree of organization and prioritization
- Oversaw the budget for each project throughout its life cycle to ensure project is on track and fiscally responsible
- Organized multiple cohesive teams of internal and external stakeholders to ensure all project outcomes are met
- Prioritized the City of Flagstaff's Carbon Neutrality Plan in the design and construction of Capital Improvement Projects

Water Resources Engineer- Hansen, Allen & Luce- South Jordan, UT, 12/2020- 10/2022

- Completed multiple water planning tasks including master plans, conservation plans, impact fees, development reviews, and 40-year water rights plans
- Assisted with energy audits of water utility systems throughout the U.S. to find opportunities for system optimization
- Built and regularly updated 8 water utility models for cities as a tool for future water development and planning
- Implemented water conservation policies into master plans to encourage reduced water use on the community level
- Balanced water rights portfolios with water supply through policy and State Laws to ensure water supply year round

Master's Thesis Climate Fragility Risks in Transboundary Water Projects- Flagstaff, AZ, 08/2018- 05/2020

- Published manuscript for the Global Environment Facility to incorporate climate fragility risks into climate action plans
- Interacted with 4 international environmental organizations to inform and enact positive change within GEF
- Crafted an innovative project that crossed multiple disciplines to account for the multifaceted nature of climate fragility

Graduate Administrative Assistant for Interdisciplinary Global Programs- Flagstaff, AZ, 08/2018- 08/2020

- Designed recurring statistic reports for 400 students with 20 attributes for stakeholder presentations
- Supported operations through 10 events annually, 6 projects, and daily management to centralize communication
- Maintained student base by reviewing 180 applications annually and managing inquiries to optimize student experience

Research in Sustainable Sciences International Internship- CADIC Ushuaia, Argentina, 01/2017- 06/2017

- Gained a global and community level perspective on the environmental and social impacts of human development
- Strengthened intercultural competency by working in a terrestrial ecology lab with interdisciplinary researchers

Northern Arizona University Space Management Team Member- Flagstaff, AZ, 05/2015- 07/2016

- Performed on site measurements of 140 buildings on NAU campus to ensure compliance with state law
 - Updated 140 building plans on AutoCAD to provide stakeholders with accurate building code and inspection information
 - Created an accessible building database of over 300 files to optimize building and planning strategies for stakeholders
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PROFESSIONAL DEVELOPMENT

- Water Rights Training, 2022 certified as a water rights expert in the Western United States
- International Engineering Education Colloquium, 2019 presented and participated in colloquium panel
- 100K Strong, 2019 participated in an international program focused on social justice, climate change, and culture

- Arizona-Mexico Commission Summit, 2019 participated in summit, representative since 2018
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SKILLS

- Spanish B1 Intermediate Level
- Skilled in ArcGIS and ArcGIS Pro
- Creative problem solving
- Interdisciplinary and intercultural competence
- Experienced in HEC-RAS, AutoCAD, and MODFLO
- Data analysis and database development
- Team event planning and management
- Skilled in Infowater and EPAnet