

# Elizabeth Hartson

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## Education

Western Colorado University (Gunnison, CO)

August 2017 - May 2019

- Master of Environmental Management (GPA 3.912), Concentration in Integrative Public and Land Management
- Thesis project: formation of an educational nonprofit for abandoned mine reclamation & leading the first site assessment project at an inactive mine in the Bonita Peak Superfund Site
- *Relevant coursework:* Applied Environmental Science, Quantitative Skills for Environmental Management, Ecological Restoration

Trinity University (San Antonio, TX)

August 2012 - May 2016

- Bachelor of Science in Biology, minor in Geosciences
- Sigma Gamma Epsilon earth science honors fraternity, August 2015-May 2016

## Certifications & Trainings

- RCRA Hazardous Waste Management
- Texas Hazardous & Industrial Waste Management
- Department of Transportation Hazardous Waste Operator
- HAZWOPER 40-hour
- Crucial Conversations
- Blue Stake Training
- Fatal Risk Management for Supervisors
- Flagging and Barricading
- Business Acumen
- OSHA Workplace Safety

## Relevant Experience

Environmental Scientist I

June 2019 – Present

Freeport-McMoRan

El Paso, TX

- Supports site and corporate goals of environmentally safe and responsible operation
- Conducts environmental compliance audits 1-3 times per month
- Collects representative samples of waste in the field and maintains log book records for all sampling events
- Collaborates with environmental department to make waste determinations using high-quality data to dispose of waste in compliance with environmental regulations
- Develops communication skills to collaborate effectively with operations to ensure environmental compliance
- Maintains electronic and physical waste manifest records using Sphera ISS online database, SharePoint, and indexed filing
- Checks for waste results weekly on the SAP Business Objects portal and interpreted them to make waste determinations
- Led the site waste shipment and waste profile data migration in Microsoft Excel as part of a collaborative, company-wide effort led by Arcadis

Project Manager

January 2018 – June 2019

Western Alliance for Restoration Management

Gunnison, CO

- Organized a site visit to an abandoned mine in the Bonita Peak Superfund Site in August 2018, including route planning, coordination with site owners, and writing a health & safety plan
- Wrote a geochemical analysis plan and quality assurance project plan for rock samples collected onsite with professional review from scientists at local contracting company Whetstone Associates
- Used the analysis plan and quality assurance measures to characterize and prepare samples for geochemical testing and manage data appropriately
- Conducted outreach and meetings with relevant stakeholders at universities, nonprofits, and government agencies
- Co-presented at the San Juan Mining & Reclamation Conference in May 2018 on the economics of mine reclamation

Introductory Biology Laboratory Teaching Assistant

August 2013 – May 2016

Trinity University

San Antonio, TX

- Assembled and organized materials for each week's lab for at least one hour per week
- Tutored 3-10 students per semester in weekly office hours on scientific writing and class-related mathematical and scientific skills, such as statistical analysis and database research
- Led review sessions prior to laboratory practical exams
- Assisted with class instruction and answered student questions during lab
- Scored and returned 15-40 individual student quizzes and assignments every week

Peer Tutor of Climate Change First Year Seminar

August 2015 - December 2015

Trinity University

San Antonio, TX

- Provided general comments and grammatical corrections on all short essays and reading responses, which were assigned once or more per week to a class size of 20 students

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- Tutored 3-8 students per major paper, which occurred five times per semester, in office hours to provide guidance in writing personal, policy, and literary analytic papers
- Met with the instructor weekly to discuss student performance and course goals; contributed on occasion to lesson planning
- Developed and led a successful mid-semester student feedback discussion; reported findings to faculty in a private meeting

## Field and Research Experience

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Field Assistant in East Mancos, Colorado

August 2018

Colorado Division of Reclamation, Mining, & Safety (Volunteer)

- Navigated on foot via strenuous, often uphill routes to mine sites marked with GPS coordinates
- Described and characterized conditions at the sites using a CDRMS standard data sheet, including not limited to: estimation of waste rock volume, description of the geology of waste rock, condition of mine workings, presence and condition of historic structures, and evidence of water contact with waste rock

Field Assistant in San Juan Mountains, Colorado

July 2018

United States Geological Survey (Volunteer)

- Scrambled on volcanic outcrops to collect and collect rock resistivity data and field observations on interactions between strata
- Set up and took down two to four magneto-telluric stations per day to collect magneto-telluric data
- Observed collection and analysis of magneto-telluric data

Field Assistant in Glendale, Utah

May 2016 - June 2016

Trinity University

- Climbed on sandstone outcrops to collect and record dip-dip direction data and field observations on field joint systems
- Hiked several miles per day, often on strenuous uphill routes, to reach outcrop sites and collect data
- Transcribed data and observations into Excel after returning from the field sites
- Assisted with drone flights to gather photographic and video data of inaccessible fault zones

Mellon Undergraduate Research Internship on Climate Change Literature

May 2014 - July 2014

Trinity University

- Collaborated with faculty mentor to write grant proposal
- Assembled resources on local and global approaches to climate change and ecological consequences of global warming
- Attended and participated in a class-credit, biological field school near De Beque, Colorado to learn about and assist in local ecological research related to climate change (measuring loss of biological diversity with mammalian and botanical transects, spending a day in the field a researcher documenting the relationship of Sudden Aspen Death to elk herbivory)
- Produced a 20-page research paper on the subject under the editorial direction of my faculty mentor
- Organized and presented my work in a 15-minute oral presentation at Trinity's undergraduate research conference

## Volunteer Experience

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Crested Butte Wildflower Festival

June 2017-July 2018

Crested Butte, Colorado

- Completed a wildflower identification and outdoor safety training
- Led five wildflower walks on Brush Creek Trail per year with 15-35 hikers each and assistant-led two extended wildflower hikes with up to 10 hikers each on the Point Lookout and Snodgrass trails

Alpha Pi Omega

Fall 2014-Spring 2016

Delta Pi Chapter at Trinity University

- Was an active member of Alpha Phi Omega, a service fraternity founded by former Boy Scouts, for two years, during which I completed at least 20 hours per semester of community service.

## References

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Professor Luke Danielson. Adjunct Faculty Member at Western Colorado University. (970) 641-4605. [ldanielson@western.edu](mailto:ldanielson@western.edu)

Dr. Jennie DeMarco. Lecturer in Environment & Sustainability at Western Colorado University. (970) 943-2013.

[ldemarco@western.edu](mailto:ldemarco@western.edu)

Scott Effner, PG. Principal Geochemist/Hydrologist at Whetstone Associates. (970) 964-8220. [Seffner@whetstone-associates.com](mailto:Seffner@whetstone-associates.com)