



## EXPERIENCE

### **Environmental Data Scientist/GIS Analyst | CAPE Management Inc | May 2024 – November 2025**

- Utilize Geographic Information Systems (GIS) and associated ESRI ArcGIS software to produce, display, and analyze spatial data.
- Create, organize, manipulate, and generate GIS maps and data for reporting, analysis, and data visualization purposes.
- Mentors teammates on ArcGIS Pro tools and best practices while transitioning from ArcMap.

### **Graduate Intern III – Data Analytics | National Renewable Energy Laboratory (NREL) | June 2023 – June 2024**

- Compiled and evaluated low-temperature datasets and uploaded them to the Geothermal Data Repository.
- Developed methodologies and evaluation of relevant data for sedimentary basin, radiogenic, and orogenic play types.
- Assisted with analysis and publication of results in peer-reviewed publications and high-impact forums.
- Leveraged and build scripts to automate workflows using Python.

### **Geotechnical/Data Management Student Contractor | USGS Central Energy Resources Science Center | February 2023 – June 2024**

- Assisted CERSC DMSP staff inventory legacy geospatial datasets using established processes and workflows.
- Assisted CERSC DMSP staff in preparing legacy geospatial datasets for migration to Enterprise cloud systems.
- Ensured datasets identified for migration meet USGS Fundamental Science Practices.
- Updated metadata records.
- Leveraged and build scripts to automate workflows using Python.
- Performed various data analytics and visualization tasks.

### **Data Management Student Assistant II | NCAR/EOL | January 2023 – June 2023**

- Developed and modified field project web pages.
- Archived data sets and associated metadata.
- Created and modified scripts to ingest/manipulate/organize/archive data sets.

## EDUCATION

### **M.S. Data Science | December 2023 | Colorado School of Mines, GPA 3.95**

*Coursework:* Statistical Learning and Methods, Machine Learning, Programming Concepts, Probability.

*Activities:* Graduate Student Government (GSG) Representative for the Data Science program.

### **Graduate Certificate Geographic Information Systems | June 2022 | University of Denver, GPA 3.66**

*Coursework:* Python Programming in ArcPro, Remote Sensing, Cartography & Geovisualization.

### **B.S. Geology, Minor in Watershed Science | August 2021 | Colorado State University, GPA 3.22**

*Coursework:* Land Use and Water Quality, Paleontology, Geologic Field Methods, Environmental Geology, Modeling in the Earth Sciences, Physics, GIS, Hydrology, Geochemistry, Calculus.

*Activities:* CSU Triathlon Team, CSU Climbing Team and Nationals Qualifier and Competitor.

*Field & Research Experience:* 5-Week Geology Field Session, one week-long Watershed Science Field Practicum.

## SKILLS

**Programming:** C++, R, Python, Pandas, Git, NumPy, Scikit-learn, Matplotlib, SQL, Bash & ssh, Linux & Vim, Jupyter Notebooks, VS Code

**GIS:** ArcGIS Pro, Model Builder, QGIS, ArcPy

**Other:** Microsoft Office, PowerPoint, Windows & MacOS

## PUBLICATIONS

Davalos-Elizondo, Estefanny, Amanda Kolker, Nicole Taverna, Emily Holt. 2023. *Assessing Low-Temperature Geothermal Play Types: Relevant Data and Play Fairway Analysis Methods*. Golden, CO: National Renewable Laboratory. NREL/TP-5700-87259.

<https://www.nrel.gov/docs/fy23osti/87259.pdf>

Taverna, Nicole, Jon Weers, Sean Porse, Arlene Anderson, Zachary Frone, and Emily Holt. 2023. *An Update on the Geothermal Data Repository's Data Standards and Pipelines: Geospatial Data and Distributed Acoustic Sensing Data: Preprint*. Golden, CO: National Renewable Energy Laboratory. NREL/CP-6A20-86935.

<https://www.nrel.gov/docs/fy24osti/86935.pdf>.