

# Katherine A Hickok

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## EXPERIENCE

### Data Scientist Fellow

11/2021- 03/2022

General Assembly

Denver, CO

- Performed data cleaning and exploratory data analysis to solve analytical problems using Python.
- Developed statistical machine learning models to make predictions on unseen data.
- Projects completed:
  - Scraped 10,000 posts from two subreddits using Pushshift's API and performed an NLP analysis to determine which post belonged to which subreddit with an accuracy of 83%.
  - Extracted hourly energy data to perform a time-series analysis and forecast future energy demand for the Texas energy grid.
  - Used Lasso regression and varying feature transformers to predict wine quality from climate data queried from Google BigQuery API

### Server/Host

05/2021- 11/2021

Delaney Oyster House- Neighborhood Dining Group

Charleston, SC

- Maintained high standards of customer service for patron enjoyment during fast-paced operations.
- Used menu knowledge and strong communication skills to increase food/drink sales.

### Staff Geologist

07/2018- 09/2019

Terry Environmental Services

Summerville, SC

- Prioritized and performed multiple field assignments adhering to SC-DHEC standards and staying within budget.
- Managed multiple projects simultaneously and acted as a field site liaison between clients and subcontractors.
- Worked independently in a field environment and conduct environmental site assessments
- Assisted with training new hires and mentored them on time-efficient procedures and safety protocols.

### Graduate Research Assistant

08/2015- 08/2017

University of South Carolina

Columbia, SC

- Developed and implemented a multidisciplinary project to better understand the biogeochemistry of an oceanic hydrothermal vent system.
- Conducted background research and synthesized technical data to address unanswered hypotheses.
- Prepared publications and conference presentations with implications for prebiotic chemistry and astrobiology.

## SKILLS

**Data Analysis-** Python (NumPy, Pandas, scikit-learn, Tensorflow, Keras), Supervised Machine Learning, Unsupervised Machine Learning, NLP, Time-series Forecasting , Google BigQuery, SQL, Git, Github, Exploratory Data Analysis

**Data Visualization-** Seaborn, Matplotlib, Tableau

**General-** Technical writing, Literature review, Project management, Communication, Statistical analysis

## PUBLICATIONS

**Hickok K.A.,** Nguyen T.B., and Lang S.Q. (2018). Assessment of apolar lipids in subseafloor rocks and potential contaminants from the Atlantis Massif (IODP Expedition 357). *Organic Geochemistry*. 122: 68-77.

## EDUCATION

### Data Scientist Fellow

11/2021- 03/2022

General Assembly

Denver, CO

*Certificate of Completion: General Assembly Data Science Immersive 480 hours*

### MS in Geological Sciences

08/2015- 08/2017

University of South Carolina

Columbia, SC

### BS in Geology with Concentration in Environmental Science

08/2010- 05/2014

Clemson University, *Cum Laude*

Clemson, SC