Victoria Cutler

(415) 302-3957 | victoriacutler123@gmail.com | Website | GitHub | LinkedIn | San Francisco, CA

EDUCATION

Master of Environmental Data Science, 3.98 GPA (June 2023)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
Highlighted Coursework: Environmental Modeling, Machine Learning, Statistics

Bachelor of Arts with Distinction in Environmental Science, 3.82 GPA (May 2018)
Colorado College, Colorado Springs
Study Abroad: Banking, Finance, and Social Responsibility Program – Geneva, Switzerland

DATA SCIENCE & CLIMATE CHANGE PROJECTS

Automating Climate Scenario Creation for Wildfire Modeling – Master's Capstone Project (1/23–6/23)
Developed a user-friendly interactive web application, with real-time data retrieval, for researchers to efficiently construct diverse sets of climate scenarios for more efficient and accurate wildfire prediction.

The Effects of Soil Temperature on Seedling Growth in Pikes Peak, Colorado – Senior Thesis (8/17–5/18)
Collected and utilized remote sensing and drone imagery to gather soil temperature, relative humidity, wind speed, tree height, tree health, and shadowing data. Transformed and analyzed these data using ArcMap GIS and statistical software to evaluate and communicate the impact of climate change on the local tree line.

DATA SCIENCE & RENEWABLE ENERGY EXPERIENCE

Pacific Gas and Electric (PG&E), San Francisco, CA

Senior Strategic Analyst, Energy Efficiency Policy (10/21–5/22)
- Managed 50+ stakeholders in creating a 600+ page eight-year strategic energy efficiency plan.
- Oversaw the request of $1B for electrification, decarbonization, integrated demand side management technologies, financing, equity, and wildfire resiliency.

Program Manager, Distributed Generation (12/19–9/21)
- Synthesized over 100 pages of requirements for the newly mandated energy storage program, SGIP.
- Successfully launched two new programs, Green Saver and Local Green Saver, and provided strategic management over a third program, DAC-SASH. All initiatives were dedicated to increasing solar adoption and securing financial benefits for low-income customers in disadvantaged communities.
- Spearheaded multiple complex technical projects, working with internal and external stakeholders, to automate program enrollment and ensure transparency and accessibility.

Data Analyst, Emergency Operations Center (10/19–8/20)
- Analyzed big data in SQL, R, and Python during PG&E's first Public Safety Power Shutoff events, an emergency response to shutoff power on electric lines when wildfire-risk is high.
- Volunteered for 12-hour shifts on an as-needed basis to help communities prepare for outages.

Rotational Analyst, Demand Response Operations (1/19–12/19)
- Automated complex calculations with R and SQL to approximate demand response electricity reduction, ensure compliance, and settle payouts with the California Independent Systems Operator.
- Developed a reusable and reproducible R script to reconcile and cleanup demand response data.

Rotational Analyst, Measurement, Data Analytics & Products (8/18–1/19)
- Created reproducible R code to wrangle data and determine which types of commercial customers would be best suited for non-traditional pay-for-performance energy efficiency (EE) programs.
- Designed a reusable R script for targeted customer selection in various EE programs.

SKILLS & ADDITIONAL EXPERIENCE

Languages & Environments: Bash/Command Line, GitHub, GIS (ArcGIS Online, ArcMap), Jupyter, Microsoft (Excel, Word), Python, R, RStudio, SQL, SQLite, Tableau, Terminal, VS Code
Specializations: Environmental Modeling, Machine Learning, Statistics, Prompt Engineering