

Victoria Cutler

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EDUCATION

Master of Environmental Data Science, 4.00 GPA (June 2023)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

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 SKILLS

Languages & Environments: Bash/Command Line, GitHub, GIS (ArcGIS Online, ArcMap), Jupyter, Python, R, RStudio, SQL, SQLite, Tableau, Terminal, VS Code

Technical: Data Visualization, Environmental Modeling, Machine Learning (Regression and Classification), Prompt Engineering

DATA SCIENCE PROJECTS

Automating Climate Scenario Creation for Wildfire Modeling (01/23–06/23)

Client: The Tague Team Lab | Master's Capstone Project

- Worked in a team of four to build and deploy a user-friendly RShiny web application that provides easy access to climate data (via API) for more efficient and accurate wildfire modeling.
- Created compelling visuals in R for the general public to understand local climate change implications.

The Effects of Soil Temperature on Seedling Growth in Pikes Peak, Colorado (08/17–05/18)

Client: The Environmental Science Department | Undergraduate Thesis

- Utilized remote sensing to collect soil temperature, relative humidity, and wind speed measurements.
- Helped launch drones to collect data on tree height, tree health, and shadowing.
- Configured and analyzed data in ArcMap GIS then used statistical software to isolate the effects of climate change on tree line, which culminated in a 20-page dissertation.

DATA SCIENCE EXPERIENCE

Data Analyst – PG&E, San Francisco, CA (10/19–08/20)

Emergency Operations Center (EOC) Team

- Worked with big data in SQL, R, and Python during PG&E's Public Safety Power Shutoff (PSPS) events, an emergency response regime put in place to shutoff power on electric lines when wildfire-risk is substantial.

Rotational Analyst – PG&E, San Francisco, CA (08/18–12/19)

Demand Response Operations (DROps) Team

- Automated complex calculations with R and SQL to approximate demand response electricity reduction, ensure compliance, and settle payouts with the California Independent Systems Operator (CAISO).
- Developed a reusable and reproducible R script to reconcile and cleanup demand response data.

Measurement, Data Analytics & Products (MDAP) Team

- Created reproducible R code to determine which types of commercial customers would be best suited for pay-for-performance energy efficiency (EE) programs (i.e. programs designed to increase energy savings beyond traditional EE programs).
- Worked collaboratively with external third parties to wrangle data and develop, using R, relevant 'targeted' customers tailored to each third-party energy efficiency program.

Corporate Social Responsibility Intern – Van Cleef & Arpels, Geneva, Switzerland (10/16–11/16)

- Tracked and analyzed energy consumption data across 100+ storefronts to create metrics useful in benchmarking energy efficiency across retail stores.

ADDITIONAL PROFESSIONAL EXPERIENCE

Senior Strategic Analyst – PG&E, San Francisco (10/21–05/22)

Project managed the creation of a newly state-mandated eight-year strategic energy efficiency plan incorporating electrification, decarbonization, integrated demand side management technologies, financing, equity, and wildfire resiliency; and spanning 600+ pages with a budget request of over \$1B.

Program Manager – PG&E, San Francisco (12/19–09/21)

Led three programs – Green Saver (GS), Local Green Saver (LGS), and DAC-SASH – all aimed at increasing solar adoption and its associated financial benefits among income-qualified customers in disadvantaged communities. Managed financials and forecasted expenditures (with annual budgets of over \$10M), spearheaded multiple complex projects working with internal and external stakeholders to automate program enrollment and ensure transparency and accessibility.