

Victoria Cutler

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EDUCATION

Master of Environmental Data Science, 3.98 GPA (June 2023)

Bren School of Environmental Science & Management at UC Santa Barbara | Santa Barbara

Highlighted Coursework: Databases and Data Management, Data Visualization and Communication, Environmental Modeling, Ethics & Bias, 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 PROJECTS

Automating Climate Scenario Creation for Wildfire Modeling – Master’s Capstone Project (1/23–6/23)

Worked collaboratively in a team of 4 to build and deploy a user-friendly RShiny web application that provides easily accessible climate data (via API) for more efficient and accurate wildfire modeling.

The Effects of Soil Temperature on Seedling Growth in Pikes Peak, Colorado – Senior Thesis (8/17–5/18)

Utilized remote sensing techniques 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 and employed statistical software to isolate the effects of climate change on the local tree line, which culminated in a 20-page dissertation.

DATA SCIENCE & DECARBONIZATION EXPERIENCE

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

Senior Strategic Analyst, Energy Efficiency Policy (10/21–5/22)

- Managed 100+ stakeholders in creating a 600+ page eight-year strategic energy efficiency plan.
- Led 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)

- Led 3 programs (Green Saver, Local Green Saver, and DAC-SASH) all aimed at increasing solar adoption and its associated financial benefits among 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)

- Worked with big data in SQL, R, and Python during PG&E’s Public Safety Power Shutoff events, an emergency response put in place to shutoff power on electric lines when wildfire-risk is substantial.
- 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 determine which types of commercial customers would be best suited for non-traditional pay-for-performance energy efficiency (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.

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, Prompt Engineering, Statistics