Dawson Verley
M.S. Student in Energy and Resources / Machine Learning for Sustainable Energy Systems
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EDUCATION

M.S. in Energy and Resources, Expected Spring 2026
University of California, Berkeley

- *Relevant Coursework:* Data-Driven Control; Advanced Topics in Learning and Decision Making; Probability and Random Processes; Quantitative Policy Analysis; Energy and Society
- *Teaching:* Data, Environment and Society (ENERES 131); Data Science for Economists (ECON 148)
- *Primary Advisor:* Professor Duncan Callaway (ERG, EECS)
- Student Member, Institute of Electrical and Electronics Engineers (IEEE)

B.A. in Political Science with Honors and Distinction, Awarded Spring 2022
Stanford University

- *Relevant coursework:* Data Science, Intro to Statistical Learning, Machine Learning for Social Scientists, Deep Learning, Intro to R, Intro to Python Programming, Intro to Scientific Python, Research Design
- Phi Beta Kappa; GPA 4.052

PRIOR EXPERIENCE

Research Data Analyst, September 2023 – July 2024
Department of Political Science – Stanford University, Stanford, CA

- Developed an ML-based entity resolution method for large, multi-source datasets.
- Combined this with large-scale earth observation data to study global climate impacts.

Legislative Aide (Natural Resources Committee), January 2023 – January 2024
Alaska State House — Juneau, AK

- Worked with stakeholders to navigate complex issues in energy and natural resources policy.
- Briefed legislators on CCUS, grid decarbonization, and climate change adaptation.

Research Fellow (Computational Science), August 2022 – January 2023
Regulation, Evaluation and Governance Lab — Stanford Law School, Stanford, CA

- Assessed the impact of California's Mandatory Minimum Penalty program on water quality using administrative data from the California State Water Resources Control Board.

SKILLS AND INTERESTS

Technical Skills: Python (PyTorch), R (tidyverse), ML, RL, statistical modeling, data-driven control
Research Interests: applied machine learning, energy systems, public policy, climate change
Current Projects: Offline RL for Building Energy Efficiency; Distribution Shift Detection in Energy Systems; Uncertainty Quantification and Conformal Prediction for Robust Energy System Management