

Brooke Grazda

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EDUCATION

Master of Environmental Data Science | Expected June 2025

Bren School of Environmental Science & Management – UC Santa Barbara

Leadership/Involvement: MEDS Co-Chair, Environmental Justice Club

Coursework: Statistics, Geospatial Analysis and Remote Sensing, Machine Learning, Data Visualization and Communication, Databases and Data Management, Ethics & Data Bias

Bachelor of Arts in Environmental Studies | June 2024

University of California, Santa Barbara (UCSB)

Honors: Dean's Honors: Fall 2022, Winter 2023, Fall 2023, Winter 2024

Leadership/Involvement: UCSB Coastal Fund, Environmental Affairs Board, Lumina Choir

Study Abroad: Monteverde Institute, Costa Rica - Tropical Biology and Conservation Research

Capstone: Analyzing Groundwater Contamination Sites in Kings, Fresno, and Kern Counties

DATA SCIENCE PROJECTS

Master's Capstone Project | January 2025 – Present

Modeling the Impact of Decarbonization on Labor in California's Central Coast

Client: The 2035 Initiative and UCSB Community Labor Center

- Perform literature review on floating offshore wind and utility solar for economic modeling
- Build interactive dashboard that visualizes job impacts for labor advocacy in the Central Coast

Examining Effects of Historical Redlining in Los Angeles County | Fall 2024

- Visualize Homeowner Loan Corporation (HOLC) grades for Los Angeles census tracts in RStudio
- Analyze correlations between historically redlined areas, low-income communities, biodiversity, and negative health impacts using EJ Screen data and identify potential biases in missing data

WORK EXPERIENCE

Graduate Research Assistant | The 2035 Initiative | 1/25 – Present | *Goleta, CA*

- Validated 2000+ congressional statements on the IRA and IIJA for Atlas' Clean Economy Tracker
- Assist Dr. Leah Stokes with administrative duties and research planning in environmental politics

Environmental Management Intern | Public Works | 9/24 – 12/24 | *Santa Barbara County, CA*

- Support the Resource Recovery & Waste Management Division to meet State Bill 1283 compliance
- Increase outreach of organic waste disposal programs with bilingual community organizers

Environmental Educator | I Love A Clean San Diego | 3/24-7/24 | *San Diego County, CA*

- Deliver informative presentations to K-12 classrooms across San Diego County on stormwater pollution prevention, zero waste, and recycling
- Lead and support special events, workshops, and corporate beach cleanups
- Develop positive relationships with schools, corporations, and local governmental agencies

ADDITIONAL EXPERIENCE

Marketing & Administrative Assistant | Institute for Energy Efficiency | 3/22 – 2/24 | *Goleta, CA*

Water Quality Monitor | San Diego River Park Foundation | 1/20 – 3/20 | *San Diego, CA*

SKILLS

Programming: R, Python, SQL, Java, GitHub, MATLAB, Scikit-Learn, CSS, D3 by Observable

Computer: Microsoft Suite, Excel, Concur, Drupal 9, GUS 4D, Quarto, Affinity, Overleaf, Hubspot, GIS

Certifications: America Red Cross First Aid & CPR, Nonprofit Essentials

Communication: Public Speaking, Writing for Science and Technology