

Meagan Brown

meagan_brown@ucsb.edu | [LinkedIn](#) | [Personal Website](#) | [GitHub](#)

HIGHLIGHTED SKILLS

Data Management/Visualization: R, Python, SQL, Excel, Github, Tableau, ArcGIS Online

Computing/Analytical: ArcGIS Pro, Statistical analysis in R

EDUCATION

Master of Environmental Data Science (Expected June 2023)

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

Leadership: DEI Committee Representative (09/22 – Present)

Awards: Environmental Data Science Scholarship (January 2022)

Bachelor of Science in Environmental Studies (June 2021)

University of California, Santa Barbara (UCSB)

Leadership: Treasurer, Zero Waste Committee (05/20 – 06/21)

Awards: Edison Research Scholarship (May 2020)

RESEARCH EXPERIENCE

US Water Student Research Assistant, Dr. Jasechko & Perrone – UC Santa Barbara (07/22 – Present)

- Gathering water supply data for US cities with populations greater than 500,000 people
- Utilizing google sheets for preliminary data organization

California Water Research Assistant, Dr. Perrone – UC Santa Barbara (06/21 – Present)

- Assisting UCSB water resources professor with mapping needs using ArcGIS Pro
- Gathering geospatial data to inform environmental justice and water resources research interests

Undergraduate Senior Thesis, Dr. Perrone – UC Santa Barbara (10/20 – 05/21)

Project Title: “Who Decides when the Wells Run Dry: An exploratory Analysis of equity and stakeholder representation under SGMA in the Kings subbasin”

- Explored 7 Groundwater Sustainability Plans for stakeholder equity and representation
- Developed maps in R to visualize groundwater basins and agency boundaries for context

Palm Oil Supply Chain Student Research Assistant, Robert Heilmayr – UC Santa Barbara (3/19 – 6/19)

- Assisted a UCSB professor for Transparency for Sustainable Economies (TRAISE)
- Transferred data (companies, palm oil refineries, and mills) from PDFs into Excel documents

PROJECT MANAGEMENT EXPERIENCE

Project Manager, Master’s Data Science Capstone – UCSB Bren School (01/23 – Present)

Project Title: “Assessing Wildfire Risk in Groundwater Dependent Ecosystems”

- Authored proposal for a master’s data science project
- Coordinating internal meetings between 4 project members and external meetings with our client
- Overseeing project goals and monitoring progress
- Employing statistical analysis to assess the relationship of wildfires and groundwater in California

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Groundwater Plan Reviewer & Mapper – Melissa Rhode, The Nature Conservancy (06/21 – 08/22)

- Led an independent project to map water quality and water level monitoring wells in California
- Mapped vulnerable stakeholders of interest (disadvantaged communities, drinking water, etc.)
- Presented results that were included in comment letters to ~65 Groundwater Sustainability Agencies

Mapping Intern, City of Santa Barbara Environmental Services, Santa Barbara, CA (11/21–8/22)

- Spearheaded the development of an interactive map and survey using ArcGIS Online to highlight city clean-up efforts over time and receive reports from the public

Master's Statistics Final Project, UCSB Bren School (10/22 – 12/22)

Project Title: "Does Groundwater Availability Influence Wildfire Severity?"

- Ran preliminary statistical analysis and produced figures in R
- Performed an interaction model between groundwater and wildfire in California with R
- Interpreted project results and presented to a class of ~30 students

PRESENTATION EXPERIENCE

Presentation Skills, UCSB Bren School Course (02/2023 – Present)

- Enrolled in a 5-week public speaking and presentation skills course
- Furthering my skills in tone, pacing and data visualization

Environmental Justice Symposium Flash Talk, UCSB Bren School (May 2022)

Presentation Title: "Shortcomings of Underserved Community Mapping in California"

- Presented environmental justice research findings to 30+ students, faculty, and guests over zoom
- Developed presentation using Keynote and figures exported from ArcGIS and R
- Received small award from an audience vote of best presentation

Senior Thesis Presentation, UCSB Environmental Studies Department (May 2021)

Project Title: "Who Decides when the Wells Run Dry: An exploratory Analysis of equity and stakeholder representation under SGMA in the Kings subbasin"

- Presented final thesis project to 30+ students, faculty, and guests over zoom
- Designed presentation using Keynote, figures exported in R, and logos from Canva

ADDITIONAL EXPERIENCE

DEI Committee Representative, UCSB Bren School, Santa Barbara, CA (08/22 – Present)

- Attend quarterly meetings to discuss the progress of efforts toward diversity at the Bren school
- Regularly meet with the two other DEI student representatives

Lead Barista, First Class Concessions, Santa Barbara Airport, Santa Barbara, CA (03/18 – 03/20)

- Served up to 200 customers per day and handled cash flow
- Trained several new employees and enabled a fast paced and creative environment as lead barista

Community Engagement Coordinator, Gravity Water, Santa Barbara Chapter, CA (06/20 to 12/20)

- Engaged with local businesses to arrange events and raise money for gravity fed water systems