Meagan Brown

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**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 (TRASE)
* 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