Meagan Brown

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**EDUCATION**

**Master of Environmental Data Science** (June 2023)

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

Highlighted Coursework: Analytical Workflows and Scientific Reproducibility, Data Management, Team Science Collaboration, Ethics & Bias in Environmental Data, Statistics for Environmental Data, Data Visualization and Communication, Spatial Analysis, Remote Sensing, Machine Learning

Leadership: Diversity, Equity, and Inclusion (DEI) Committee Representative (9/22 – 6/23)

Awards: Environmental Data Science Scholarship (January 2022)

**Bachelor of Science in Environmental Studies** (June 2021)

University of California, Santa Barbara (UCSB)

Emphasis: Geographic Information Systems (GIS)

Highlighted Coursework: Hydrology, Exploring Water Data, Water Resources Management, Water Policy, Geographic Information System (GIS) Application in R, GIS for Environmental Data Applications

Leadership: Treasurer, Zero Waste Committee (5/20 – 6/21)

Awards: Edison Research Scholarship (May 2020)

**MASTER’S DATA SCIENCE GROUP PROJECT**

**Assessing Wildfire Risk in California’s Groundwater Dependent Ecosystems** (1/23 – 6/23)

**Role: Data Manager | Client: The Nature Conservancy**, Jack & Laura Dangermond Preserve

* Utilized statistical analyses to quantify if there is a correlation between groundwater and wildfire
* Worked with large geospatial data in R (i.e., remote sensed burn severity and modeled fire threat)
* Developed a reproducible workflow hosted on GitHub
* Managed the development, organization, and tracking of project data
* Designed and presented a 15-minute talk to communicate key findings to a diverse public audience

**DATA ANALYSIS & WATER RESEARCH EXPERIENCE**

**Environmental Data Scientist**, Pathways Climate Institute, San Francisco, CA (9/23– Present)

**United States/California Water Research Assistant**, Dr. Perrone & Jasechko − UCSB (6/21 – Present)

* Conducting spatial analysis using ArcGIS Pro to inform EJ and water resources research interests
* Gathering spatial data online for CA water jurisdiction boundaries, water quality contaminants, etc.
* Recording water supply portfolio breakdowns for US cities with populations great than 500,000
* Collecting spatial data online for each US state’s water system boundaries

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

* Developed interactive and static maps using ArcGIS Online (FieldMaps, Workforce, Survey123, Story Maps, and Dashboards) to highlight City programs and progress over time
* Participated in meetings to discuss the team’s need for a more streamline workflow
* Assisted in establishing integrations between multiple data management platforms including Salesforce and Excel

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**DATA ANALYSIS & WATER RESEARCH EXPERIENCE** – Continued

**Stakeholder Equity Researcher** − The Nature Conservancy (6/21 – 8/22)

* Analyzed 100+ groundwater sustainability plans to extract insights into groundwater user equity
* Collaborated with several NGOs to provide comment letters with recommendations
* Mapped vulnerable stakeholders of interest (disadvantaged communities, drinking water, etc.)
* Work resulted in a publication to Nature Communications that I am a co-author on

**Groundwater Stakeholder Equity Senior Thesis**, Dr. Perrone − UC Santa Barbara (10/20 – 5/21)

Project Title: “Who decides when the wells run dry”

* Explored 7 Groundwater Sustainability Plans (GSPs) for stakeholder equity and representation
* Developed maps in R to visualize groundwater basins and agency boundaries for context
* Presented final thesis project to 30+ students, faculty, and guests over zoom

**COMMUNITY ENGAGEMENT & COLLABORATION**

**Water Policy Intern** − Public Policy Institute of California (PPIC), San Francisco, CA (6/23 – 8/23)

* Collaborated with California water districts to improve PPIC’s groundwater recharge survey
* Participated in meetings with users of groundwater including urban, ag, and domestic

**Diversity, Equity, Inclusion (DEI) Committee Rep.**, UC Santa Barbara, Bren School (9/22 – 6/23)

* Summarized DEI findings in reports and presentations to the committee
* Hosted focus groups with students to gain feedback, address concerns, and enact positive changes

**Hack2O Mentor Event,** Exploring Water Data, UC Santa Barbara, Env. Studies Dept. (11/17/22)

* Mentored a group of four undergraduate students in a water data wrangling course
* Students used R to clean USGS water data and produce a figure for an analysis of their choice

**Environmental Justice Symposium Flash Talk**, UC Santa Barbara, Bren School (May 2022)

Presentation Title: “Challenges in Underserved Community Mapping Data in California”

* Presented environmental justice research findings to 30+ students, faculty, and guests
* Communicated complex data to a diverse audience
* Received a small award from an audience vote for best presentation

**Community Engagement Coordinator,** Gravity Water,Santa Barbara Chapter, CA (6/20 to 12/20)

* Engaged local businesses to raise funds for water systems in Nepal and Vietnam schools
* Developed and coordinated projects to successfully cultivate partnerships and raise funds

**ADDITIONAL EXPERIENCE**

Barista, Shift Leader – Coffee Bean & Tea Leaf, Santa Barbara Airport (2/18 to 3/20)

Lead Water Quality Monitor – UC Natural Reserve System, Coal Oil Point Reserve (6/19 to 9/19)

**SKILLS**

**Data Analysis / Management / Visualization**: R (RStudio), Python (Anaconda & Jupyter), ArcGIS Pro, ArcGIS Online Suite, SQL, HTML, Bash, GitHub

**Languages**: English (native), Spanish (Intermediate, actively working toward fluency)