

ANNA RAMJI

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EDUCATION

Master of Environmental Data Science, 4.0 GPA (Expected June 2024)

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

Leadership/Involvement: MEDS Capstone Committee Student Representative, Brentor Program Member

Highlighted Coursework: Machine Learning, Statistics, Text & Sentiment Analysis, Geospatial Analysis & Remote Sensing, Data Visualization, Shiny App Development, Environmental Modeling, Data Management

Bachelor of Science in Environmental Sciences with Honors, 3.7 GPA (May 2021)

University of California, Berkeley

Senior Honors Thesis: Statistical analysis of *Octopus chierchiae* behavioral patterns

Highlighted Coursework: International Environmental Economics & Policy, Agroecology, Organic Chemistry

DATA ANALYSIS & VISUALIZATION PROJECTS

Modeling Milkweed Species Distribution in the Los Padres National Forest (LPNF) (1/24–Present)

Master's Capstone Project | Role: Data Manager | Client: Santa Barbara Botanic Garden (SBBG)

- Sourced, aggregated, cleaned, and managed geospatial, tabular, and environmental layer data to create predictive species distribution model (Maxent) in R to identify suitable milkweed habitat in the LPNF
- Developed interactive web dashboard in R to aid survey efforts for monarch butterfly conservation

Analyzing Lobster Size and Reef Bottom Temperatures Across Selected SBC LTER Reef Sites (12/23)

Master's Course Project: Statistics for Environmental Data Science | [Blog Post](#) | [Repository](#)

- Self-directed exploration, analysis, and visualization of SBC LTER data on California Spiny Lobster population
- Wrote blog post on background and documentation to communicate data analysis process to a wide audience

Additional Projects: Infographic Development for USA-China Agri-food Emissions Data in R ([Blog](#)) (3/24)

Aquaculture Suitability by Exclusive Economic Zone Function in R ([Repo](#)), Thomas Fire AQI & Landsat Analysis in Python ([Blog](#) | [Repo](#)) (12/23); Houston Power Crisis Analysis & Night Light Data Viz in R ([Blog](#) | [Repo](#)) (11/23)

PROFESSIONAL EXPERIENCE

National Center of Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA

Ocean Health Index (OHI) Fellow (5/24–Present)

- Using open science methods including version control and automatic reporting while collaborating with a diverse team of data scientists to advance methods and update ocean health index calculations
- Developing data visualizations, blog & social media posts, and interactive reports to effectively communicate scientific process and results to a broad audience to increase data analysis accessibility

Caldwell Laboratory, UC Berkeley Department of Integrative Biology, Berkeley, CA

Laboratory Manager (5/20–5/21) | **Research Assistant & Laboratory Technician** (1/19–5/21)

- Hired, scheduled, trained, and managed laboratory assistants; managed laboratory inventory and communicated with partnering lab at WHOI to maintain laboratory functions during the pandemic
- Collected qualitative and quantitative data while following strict procedures to assist primary research

SKILLS, PUBLICATION, & ADDITIONAL EXPERIENCE

Technical: R & RStudio, Python, Jupyter Lab, Git & GitHub, Version Control, Markdown, SQL, HTML, CSS & Sass, database management, SDM, geospatial & tabular data analysis, Shiny App development, Google Suite

Certifications & Languages: PADI Open Water Certification, CA Food Handler's Certification, French (intermediate)

Publication: Co-authored a peer-reviewed [publication](#) on *Octopus chierchiae* body patterns, photo-identification applications in long-term genetic studies. Published in *PLOS ONE* (4/23)

Additional Experience: Bartender & Server – Kientz Hall, San Anselmo, CA (9/22–6/23)