

# ANNA RAMJI

(415) 755-7973 | [aramji@bren.ucsb.edu](mailto:aramji@bren.ucsb.edu) | [Website](#) | [GitHub](#) | [LinkedIn](#) | Santa Barbara, CA

## EDUCATION

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

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

Awards & Leadership: Academic Achievement Award; MEDS Capstone Committee Student Representative

Highlighted Coursework: Machine Learning, Geospatial Analysis & Remote Sensing, Environmental Modeling, Statistics, Data Management, Text & Sentiment Analysis, Data Visualization, Environmental Policy Evaluation

**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

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**Modeling Milkweed Species Distribution in the Los Padres National Forest (LPNF)** (1/24–6/24)

**Master's Capstone Project** | **Role**: Data Manager | **Client**: Santa Barbara Botanic Garden (SBBG) | [GitHub Repos](#)

- 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 an [interactive web dashboard](#) in R to aid survey efforts for monarch butterfly conservation
- Archived all data products on [Dryad](#) and created metadata and documentation for product reproducibility

**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](#) | [Repository](#)

- Self-directed exploration, analysis, and visualization of SBC LTER data on California Spiny Lobster population
- Wrote and published background and documentation on my data analysis process for a broad audience

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

Aquaculture Suitability Function Development by EEZ in R ([Repo](#)), Thomas Fire AQI and Landsat Analysis in Python

([Blog](#) | [Repo](#)) (12/23); Houston Power Crisis Analysis and Night Light Data Visualization in R ([Blog](#) | [Repo](#)) (11/23)

## PROFESSIONAL EXPERIENCE

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

**Ocean Health Index (OHI) Global Fellow** (5/24–9/24)

- Used open science methods while working with 40+ data sources and collaborating with a diverse team of data scientists to update and evaluate 10 goals to quantify ocean health at regional and global scales
- Developed data visualizations, blog posts, and interactive reports on [oceanhealthindex.org](https://oceanhealthindex.org) to effectively communicate scientific processes 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 8+ 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, CERTIFICATIONS, & PUBLICATION

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**Technical**: R & RStudio, Python, Jupyter Lab, Git & GitHub, Version Control, Markdown, SQL, HTML, CSS & Sass, JavaScript, database management, geospatial data analysis, web development, Google & Microsoft Suite

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

**Publication**: Individually unique, fixed stripe configurations of *Octopus chierchiae* allow for photoidentification in long-term studies, *PLoS ONE* 18(4): e0265292 <https://doi.org/10.1371/journal.pone.0265292> (4/23)