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 | 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 wide 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 & 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

National Center of Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA (5/24–Present)
Ocean Health Index (OHI) Fellow
- 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 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, PUBLICATION, & ADDITIONAL EXPERIENCE

Technical: R & RStudio, Python, Jupyter Lab, Git & GitHub, Version Control, Markdown, SQL, HTML, CSS & Sass, database management, geospatial & tabular data analysis, web dashboard development, Google & Microsoft Suite
Certifications & Languages: PADI Open Water Certification, CA Food Hander's Certification, French (intermediate)
Publication: Co-authored a peer-reviewed publication on *Octopus chierchiae* body patterns and 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)