

Briana Barajas

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EDUCATION

Master of Environmental Data Science (Expected June 2024)

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

Independent Research: Species Distribution Modeling for California Slender Salamander

Master's Capstone: Mapping Global Tree Vulnerability Under Climate Change

Highlighted Coursework: Geospatial Analysis & Remote Sensing, Data Visualization, Databases & Data Management, Modeling Environmental Systems (all to be completed by June 2024)

Bachelor of Science in Zoology (June 2022)

University of California, Santa Barbara (UCSB)

Research: Meta-analysis compiling data on large herbivore diets (Ruby Harris-Gavin)

PROJECTS

Master's Course Project, Statistics for Environmental Data Science | [Link to repository](#) | [Link to blog](#)

- Cleaned publicly available data from an online repository to supplement statistical analysis
- Modeled the relationship between tree diameter breast height and climate variables using simple and multiple-linear regressions
- Packages used: tidyverse, janitor, here, lubridate, tsibble, feasts

EXPERIENCE

Agricultural Technician II (11/22–07/23)

California Department of Food & Agriculture, Lompoc, CA

- Monitored insect traps across 30 sq. miles of Santa Barbara County to aid in early detection and eradication of invasive agricultural pests
- Mapped properties by hand and via an interactive ESRI-based application, to maintain a record of insect trap placement and host trees

Traffic Control Aid (seasonally 06/22–10/22)

National Park Service, Yosemite Valley, CA

- Informed visitors about reservation policies and offered alternative recreation opportunities nearby to maintain established visitor limits
- Expedited traffic flow to increase visitor safety by redirecting vehicles around hazards such as wildfire closures, animal crossings, or vehicle collisions

Routes Coordinator (2/22–6/22)

Associated Student Recycling (UCSB), Santa Barbara, CA

- Trained new hires on Santa Barbara County waste sorting protocols to promote waste reduction initiatives across the UCSB campus
- Organized quarterly meetings to provide employees with updates on outreach, special projects, and policy changes to maintain the team's efficiency in a collaborative manner

ADDITIONAL EXPERIENCE

Route Rider – Associated Student Recycling (UCSB), Santa Barbara, CA (06/21-02/22 and 01/20-06/20)

Sales Associate – Navy Exchange, Port Hueneme, CA (9/20–6/21)

Snowy Plover Intern – Coal Oil Point Reserve, Santa Barbara, CA (10/18–6/19)

SAMO Youth Member – National Park Service, Thousand Oaks, CA (seasonally 6/18–9/18)

SKILLS

Programming Languages: R, Python

Integrated Development Environments (IDEs): RStudio, Jupyter Notebook, Visual Studio Code

Technical: Git and GitHub, Microsoft Office, Google Workspace, Spanish (limited working proficiency)