Briana Barajas

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EDUCATION

Master of Environmental Data Science
Bren School of Environmental Science & Management – University of California, Santa Barbara
<u>Independent Research</u>: Species Distribution Modeling for Black-Bellied Slender Salamander
<u>Master's Capstone</u>: Mapping Global Tree Vulnerability Under Climate Change | Link to synopsis
<u>Highlighted Coursework</u>: Data Visualization, Databases & Data Management, Modeling Environmental Systems, Statistics for Environmental Data Science

Bachelor of Science in Zoology
University of California, Santa Barbara (UCSB)
<u>Research Assistant</u>: 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 Aide (seasonally 06/22–10/22)
National Park Service, Yosemite Valley, CA
- Informed up to 500 visitors about the reservation system, offering alternative recreation opportunities nearby to maintain established visitor limits (English and Spanish)
- 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, SQL
Integrated Development Environments (IDEs): RStudio, Jupyter Notebook, Visual Studio Code
Technical: Git and GitHub, Microsoft Office, Google Workspace, Spanish (limited working proficiency)