Annaliese Adams

(805) 279-5299 | aradams@bren.ucsb.edu | annieradams.github.io | GitHub | LinkedIn | Ventura, CA

EDUCATION

Master of Environmental Data Science, 3.75 GPA (Expected June 2024)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
Highlighted Coursework: Machine Learning in Environmental Science, Statistics for Environmental Data Science, Geospatial Analysis, Data Visualization & Communication (all to be completed by June 2024)

Bachelor of Science in Statistics and Data Science with a minor in Feminist Studies, 3.74 GPA (June 2022)
University of California, Santa Barbara (UCSB)
Honors/Awards: Dean's List (4 quarters), Cum Laude
Involvement: Data Science Club – Member (2021)

DATA SCIENCE & STATISTICAL ANALYSIS PROJECTS

Quantifying Homes Affected by Texas Power Outage – Remote Sensing Master's Course Project (11/23)
- Utilized remotely sensed data to find communities that experienced a blackout due to the 2021 storms
- Conducted spatial data analysis by joining remotely sensed data with Texas geographical data and census data, removing misleading highway lights, and calculating raster differences pre and post storm

Demographic Predictors of Climate Change – Central Coast Data Science Fellow Capstone Project (1/22–6/22)
- Developed predictive models to understand how demographic attributes were differentially predictive of climate opinion in different countries, continents, and time periods
- Cleaned and organized covariate data from 150+ global climate change opinion surveys

PROFESSIONAL EXPERIENCE

Teaching Assistant (Data Science) – UCSB Department of Computer Science, Santa Barbara, CA (9/23–Present)
- Communicate complex data science concepts into comprehensible language, focusing on coding, data visualization, and significance testing, to students of a diverse background
- Deliver debugging assistance, explaining to students where they went wrong in their code
- Administer weekly labs, enhancing learning outcomes through Python notebook assignments

Environmental Data Storytelling Assistant – CalCOFI, San Diego, CA (Remote) (6/22–6/23)
- Analyzed 70 + years of oxygen levels off the California Coast and created visualizations that conveyed the change in these levels over time in relation to El Nino events, utilizing a science communication lens
- Launched an interactive primer and an interactive timeline of CalCOFI history to inform California Coastal residents about issues related to the conversation of marine ecosystems
- Educated high school students on environmental data science topics to increase interest in the field

Central Coast Data Science Fellow – UCSB Department of Probability Statistics, Santa Barbara, CA (9/21–6/22)
- Completed an intensive, NSF-funded fellowship program, excelling in comprehensive curriculum encompassing advanced statistical courses in machine learning, ethics, and science communication
- Organized data science panels in Santa Barbara for both prospective and current data science students

SKILLS, CONFERENCES, AND ADDITIONAL EDUCATION

Programming Languages: R, SAS, Python (Numpy, Pandas, Matplotlib, Geopandas), SQL, Latex, ArcGIS
Collaboration Tools: Git, GitHub, Slack, R Projects, Google Workspace
Conferences: A scrollytelling primer on hypoxia: Developing a data storytelling tool to communicate ocean observing data to California citizens, CalCOFI Conference, December 2022
Additional Education: Associates Degree in Mathematics – Moorpark College, Moorpark, CA (May 2020), 3.92 GPA, Southern California Edison STEM Scholarship Recipient (2019 & 2020)