

Ashley Ibarra

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Education

Bachelor of Science: Statistics

California Polytechnic State University, San Luis Obispo

Minor: Mathematics

09/2020 – 06/2024

Skills

Programming Languages: R, SQL, SAS

Data Visualization Tools: Tableau, Power BI

Statistical Techniques: Time Series Analysis, Linear Regression, Multivariate Models, Predictive Modeling

Courses

Relevant Coursework

STAT 541: Advanced Statistical Computing with R

STAT 466: Statistical Consulting

STAT 414: Multilevel and Mixed Modeling

STAT 416: Statistical Analysis of Time Series

Projects

An R Package for Horoscope Data

05/2024 – 06/2024

- Developed an R package to automate data extraction from horoscope.com, utilizing web scraping techniques and various R packages to gather daily horoscope data.
- Designed and implemented custom functions to identify zodiac signs and display personalized horoscopes, enhancing user engagement with intuitive outputs.
- Ensured data accuracy by refining the scraping process to handle dynamic elements and site updates.
- Skills demonstrated: Web scraping, data wrangling, R programming, API development

Senior Capstone Project: Statistical Consulting for COVID-19 Data

04/2024 – 06/2024

Analysis

- Provided statistical consulting on the epidemiology of COVID-19 data for a company.
- Interpreted findings from a logistic regression analysis of the COVID-19 data provided through use of SAS output.
- Delivered a comprehensive memo summarizing methodology, results, and recommendations accompanied with visualizations that was understandable to the domain experts.

Professional Experience

Data Analyst Assistant

09/2023 – 12/2023

Cal Poly SLO

- Investigated pre/post concept and attitude data for two types of textbooks and pedagogical approaches in introductory statistics courses.
- Cleaned and organized a large dataset of pre/post concept and attitude data to ensure accuracy and consistency.
- Utilized multilevel models developed in R to determine the variance in concept retention attributed to textbook type, accounting for individual and group-level factors.
- Gained experience explaining statistical findings to nontechnical audiences at the BCSM Student Research Conference.

Barista

06/2023 – 06/2024

Nautical Bean

San Luis Obispo, United States

- Crafted a variety of coffee beverages and prepared food orders in a fast-paced environment, maintaining high standards of quality and presentation.
- Received additional compensation for opening shifts, demonstrating reliability and the ability to manage the shop solo.

Organizations

SACNAS

09/2022 – 06/2023

President

- Led the SACNAS Cal Poly chapter, fostering a community that supports students and professionals in STEM.
- Participated in the 2022 NDISTEM Conference networking with STEM professionals and learning about diversity and inclusion practices in the sciences.