

Piero Trujillo

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EXPERIENCE

[Movement Data Science Lab at UCSB, Santa Barbara, CA](#) — *Data Science Fellow*

January 2023 - June 2023

- Collaborated with a team of four students on a six-month long research project sponsored by the Movement Data Science Lab at UCSB where we utilized time series datasets tracking human mobility to analyze changes in movement patterns during California wildfires.
- Employed clustering techniques to identify locations exhibiting changepoints during the fire and discover spatial-temporal patterns within our data.
- Utilized Leaflet, a web mapping API, to generate interactive spatial plots showcasing our clustering methods and the predictions derived from our logistic regression and random forest models.
- Helped aggregate and join datasets of over 30,000 observations via Pandas.
- Conducted anomaly detection on human mobility time series by using Binary Segmentation to assess the impact of a wildfire.

[Central Coast Data Science Partnership, Santa Barbara, CA](#) — *Data Science Fellow*

June 2021 - August 2021

- Stipend Summer-long capstone project aimed at learning the principles of data science, data-generating processes, and ethical data science practices.
- Developed a linear regression model to find relationships between features such as pH levels, ocean temperature, salinity, and ocean depth to understand El Niño's effect on ocean temperature and species abundance.
- Utilized Matplotlib & ggplot2 to create visualizations including heatmaps, 3D graphs and regression graphs.

[Santa Barbara City College, Santa Barbara, CA](#) — *General & Computer Science Tutor*

September 2020 - December 2021

- EOPS Department and Computer Science Department - Data Science course (CS 118):
 - Tutored students in computer science, data science, math, and English.
 - Guided students through statistics and calculus problems, enhanced grammar and sentence structure on essays, and helped students with their logic and code on programming assignments during weekly office hours.

[Omega Financial Group, Santa Barbara, CA](#) — *Student Intern*

June 2017 - August 2017

- Conducted market research on niche wealth management firms in Santa Barbara County to see where Omega differentiates.
- Created an advisor tool using VisualBasic to match clients with a custom portfolio based on risk levels to streamline the consultation process (still used at the firm).
- Created an Excel tracker using macros for real-time performance updates on stocks in investment portfolio (basis price, cost basis, share price, market value, and trending).

EDUCATION

[University of California, Santa Barbara](#) — *B.S Statistics & Data Science*

June 2023

SKILLS

Programming | Python (expertise in Pandas and NumPy) • R (expertise in tidyverse and tidymodels) • PySpark • SQL

Tech | Jupyter Notebook • R Studio • Tableau • Google Cloud Platform • Github • Excel • Unity 2D

Language | English • Spanish