

Gianni Spiga

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Experience

UC Davis Department of Statistics

Davis, CA

Teaching Assistant/ Reader

April 2023 - December 2023

- Delivered weekly in-person lectures for 50+ students, instructing on data visualization, probability theory, and statistical measures
- Engaged in effective mentorship of students through weekly one-on-one consultation
- Worked collaboratively with the professor and teaching assistants to grade 380+ students' exams

Ultraviolet

Remote

Data Science Intern

June 2023 - October 2023

- Performed non-parametric web traffic data testing to understand key customer conversion strengths and weaknesses for a subscription-based creator platform.
- Using a survival analysis, identified harmful factors contributing to churn rates, resulting in an improved overall UI experience and a reduction in cancellations.
- Upgraded daily reports for stakeholders to receive more informative and accurate data from both data warehouses and databases.
- Redesigned cold outreach marketing by utilizing CRMs and CDPs such as Pipedrive, Brevo, and Ortto to provide consistent A/B testing and improve conversion.

UC Davis Graduate School of Management

Davis, CA

Teaching Assistant

August 2022 - December 2022

- Instructed graduate students on foundational statistical topics, including probability theory, confidence intervals, significance tests, Analysis of Variance (ANOVA), and regression
- Guided the implementation of statistical methodology into real-world business analysis
- Facilitated discussions with self-designed lesson plans in a remote setting
- Assisted professor in grading 100+ students' coursework

UC Davis Health Department of Physiology and Membrane Biology

Cudmore/Santana Lab

Davis, CA

Student Assistant

December 2021 - June 2022

- Developed a sinusoidal regression modeling system for electrophysiological data; predicted spike times of cardiovascular cells measured in treatment testing
- Performed A/B testing, distribution comparisons of the mean and dispersion of spike times using nonparametric techniques such as Kolmogorov-Smirnov and Bootstrapping
- Created distribution visualization using Gaussian Kernel Density Estimation and smoothing for peak spike values

Education

UNIVERSITY OF CALIFORNIA DAVIS

Davis, CA

Master of Science, Statistics

September 2022 - December 2023

Relevant Coursework: Survival Analysis, Generalized Linear Models, Computational Statistics

- On track to graduate December 2023
- Presented Cox Proportional Hazard models in the prediction of time-to-reinfection of STDs in women to Ph.D. candidates in biostatistics and epidemiology
- Classified crime reporting via the 2020 National Crime Victimization Survey using stepwise logistic regression

UNIVERSITY OF CALIFORNIA DAVIS

Davis, CA

Bachelor of Science, Statistics. GPA: 3.63 [Minor in Computer Science]

June 2022

Dean's Honors List

Relevant Coursework: Statistical/Machine Learning, Recommender Systems, Practice in Data Science

- Performed Factor Analysis, Principal Component Analysis, and LASSO regression to measure to explore the socioeconomic influencers of social vulnerability in United States counties using official census data
- Classified subjects into categorical measures of narcissism based on survey data taken from the Open-Source Psychometrics project using techniques such as Multinomial Logistic Regression and K-Nearest Neighbours.

PASADENA CITY COLLEGE

Associates of Arts, Business, GPA 3.58

Dean's Honors List

Relevant Coursework: Introduction to C++, Linear Algebra, Personal Finance

Pasadena, CA

June 2020

Skills & Interests

Technical: R (ggplot, dplyr, tidyr), Python (numpy, pandas, Plotly, sklearn), VS Code, Jupyter Notebook, Hex, Retool LaTeX, Markdown, SQLite, Microsoft Office,

General: Quick Learner, Communicative, Goal-Oriented, Adaptable, Public Speaking

Interests: Marketing, Music Industry, Biotechnology, Machine Learning, Data Science/Analytics