

Gianni Spiga

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Education

UNIVERSITY OF CALIFORNIA DAVIS

Davis, CA

Master of Science, Statistics

Present

Relevant Coursework: Survival Analysis, Probability Theory, Regression

- Presented Cox Proportional Hazard models in the prediction of time-to-reinfection of chlamydia and gonorrhea in women to Ph.D. candidates in biostatistics and epidemiology
- Built minimized mean square error models for the prediction of blacklip abalone age using Stepwise and Ridge Regression.

UNIVERSITY OF CALIFORNIA DAVIS

Davis, CA

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

June 2022

Dean's Honor 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

Pasadena, CA

Associates of Arts, Business, GPA 3.58

June 2020

Deans Honor's List

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

Experience

UC Davis Graduate School of Management

Davis, CA

Teaching Assistant

August 2022 - December 2022

- Educated students on statistical topics, including probability theory, confidence intervals, significance tests, ANOVA, regression, etc.
- Led discussions with self-designed lesson plans in a remote setting
- Effectively and efficiently graded student's coursework

UC Davis Health Department of Physiology and Membrane Biology

Cudmore/Santana Lab

Davis, CA

Student Assistant

December 2021 - June 2022

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

Skills & Interests

Technical: R/RMarkdown, Python, Jupyter Notebook, LaTeX, ggplot, Plotly, Matlab, SQLite, Microsoft Office

General: Quick Learner, Teaching, Communicative, Sales Expertise, Goal-Oriented, Adaptable

Interests: Biotechnology, Scientific Research, Business Analytics