**Joshua Roh**

[joshua.m.roh@gmail.com](mailto:joshua.m.roh@gmail.com) / linkedin.com/in/Joshua-roh / github.com/Joshua-Roh

**EDUCATION**

University of California, Santa Barbara | Santa Barbara, CAJune 2020

*B.A. Honors - Economics Cumulative GPA*: 3.71

Relevant Coursework: Statistics for Economics, Probability and Statistics, Applied Econometrics I & II, Experimental Economics

**SKILLS & TECHNICAL TOOLS**

**Languages:** SQL (MySQL, SQL Server), Python, C, JavaScript, HTML, CSS

**Technologies:** Advanced Excel, Tableau, Git, Jupyter Notebook, Matplotlib, Pandas, Sklearn

**Statistical Techniques:** A/B Testing and Experimentation, Probability Distributions, T-Testing, Regression Analysis, Clustering

**Certification:** Advanced Excel, SQL, Tableau, Machine Learning, Google Analytics

**EXPERIENCE**

**Undergraduate Research Assistant** | University of California, Santa Barbara Sep 2018 – Jun 2020

* Supported volunteer training, and led scientific educational classes with volunteers to teach 1000-1500 students annually
* Investigated the program’s influence on improved critical thinking skills of students accounting for gender bias through data analysis, documented findings in database, and created graphical representations of data
* Provided research support by preparing lab experiments, spearheading the development of module lesson plans, and developing & administering surveys
* Helped brainstorm various research hypotheses, and conducted literature searches on research for implementation in modules

**Undergraduate Teaching Assistant |** University of California, Santa Barbara Mar 2017 – Jan 2019

* Led weekly laboratory sections for first-year Chemistry students in performing experiments and understanding inorganic chemistry concepts
* Prepared laboratory experiments, helped students with performing chemical techniques and **analyzing their data using Excel**
* Assisted students in achieving their lab objectives; provided regular, accurate, and timely feedback to over 100+ students

**Mental Health Worker | College Hospital of Costa Mesa** Jul 2021 – Mar 2022

* Recorded patient information, such as vital signs, eating habits, behavior, progress notes, or discharge plans
* Maintained accurate patient documentation and actively communicated with fellow nursing staff, administration, and clients
* Assisted patients with activities of daily living to enhance interpersonal and life skills; addressed patient behavioral problems and aided in crisis intervention

**PROJECTS**

*eCommerce Database Analysis*

* Used MySQL to analyze and optimize marketing channels, measured and tested website conversion performance, and used data to understand the impact and patterns of new product launches; metrics were further visualized through Tableau

*Housing Prices Project using Python*

* Performed predictive analytics to build a linear regression model to predict housing prices in California zip codes using feature selection and cross validation using Python libraries such as numPy, pandas, and sklearn

*Spam/Ham Classifier*

* Built a data pipeline to process data using Apache Airflow, and created a logistic regression model to predict whether emails were spam or ham