Jonathan Min

jmin111301@berkeley.edu | 925-989-0603 | https://www.linkedin.com/in/jonathan-min/ | https://github.com/jmin111301

EDUCATION

University of California, Berkeley

Bachelor of Arts in Statistics and Applied Mathematics (Emphasis in Economics/Data Science)

Graduation: May 2023 Selected Coursework: Principles & Techniques of Data Visualization · Probability Theory · Concepts of Statistics · Linear Modelling · Time Series · Causal Inference · Linear Algebra · Numerical Analysis · Real Analysis (IP) · Financial Economics

WORK EXPERIENCE

University of California, Berkeley

Berkeley, CA

Ian 2021 – Present

Cumulative GPA: 3.957

Undergraduate Student Instructor (Macroeconomic Analysis)

- Serving as a student instructor for 500 students in Berkeley's upper-division macroeconomics course, committing 20+ hours per week to facilitate lectures and sections, meet with course staff, and devise practice problems for the class.
- Facilitating 2 sections (each with 30 students), devising a curriculum that effectively builds both quantitative and qualitative skills to boost their confidence with macroeconomic concepts, Excel, and analytical techniques.
- Hosting office hours for 5 hours per week to offer tailored assistance for students, building general skills like quantitative analysis, critical thinking, and Microsoft Excel.

University of California, Berkeley

Berkeley, CA

Research Assistant (Life Cycle Consumption with Hyperbolic Preferences)

Dec 2021 - Present

- Simulating the standard model of life-cycle consumption with hyperbolic preferences (as opposed to the outdated asymptotic preferences model), utilizing R to recreate the model, run trials with different parameters, and compare results.
- Utilized the Method of Simulated Moments to estimate the optimal parameters of the life-cycle consumption model by minimizing the distance from the simulated data moments and model moments.

Research Assistant (Rational Inattention, Networks, and the Propagation of Macroeconomic Shocks)

August 2021 – Dec 2021

- Visualized the Input-Output matrices of the United States as a user interactive graph, utilizing Python's NetworkX library to include information like the magnitude and direction of relationships between goods.
- Conducted exploratory data analysis on inflation and Input-Output Matrix data from the Bureau of Labor Statistics, querying and examining the data with PostgreSQL.

LEADERSHIP AND ACTIVITIES

Microfinance at Berkeley

Berkeley, CA

Project Manager | Former Senior Strategy Consultant

Dec 2021 - Present

- Spearheaded a data driven approach within my team of 5 consultants to provide quantitatively driven recommendations to small businesses on geographic expansion, optimal pricing, and competitor performance.
- Advised 4 small businesses in Berkeley, optimizing average revenues by 10% on average by designing a model on Excel that determined the optimal vendor from features like box surface area, shipping fees, and business preference weights.

PROJECTS

Game Feature Testing (R)

Oct 2021

Conducted numerous A/B tests on 2 different versions of a mobile game through parametric and non-parametric hypothesis tests, correcting extreme p-values via the Bonferroni method.

California AQI (Python)

Aug 2021

- Utilized SQL to query data on regional racial demographics (from the U.S. Census) and AQI (AirNow.gov) in California, visualizing the cleaned dataset with Python.
- Implemented a multiple linear regression model to predict a region's AQI from a variety of features (like African American population density, median ozone PPM, region) selected via principal component analysis.

SKILLS & INTERESTS

Languages: Python (Numpy, Pandas, PyTorch (familiar), SciPy, Sklearn) · R · Stata · Tableau (familiar) · HTML · Java Statistics/Visualization: Matplotlib · Plotly · Seaborn · ggplot2 · SQL · ANOVA · A/B Testing · Bootstrapping · Inference Machine Learning/General: Linear/Logistic Regression · Decision Trees · k-means · KNN · PCA · Gradient Descent Interests: Information Theory · Esports · Spikeball · Bouldering · Language Learning · Vinyl Collecting · Animation/Film