Jonathan Min

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EDUCATION

University of California, Berkeley **Cumulative GPA:** 3.962
Bachelor of Arts in Statistics (Honors with an Emphasis in Economics) and Applied Mathematics **Graduation**: May 2023
Selected Coursework: Principles & Techniques of Data Visualization · Probability Theory · Stochastic Processes (IP) · Concepts of Statistics · Statistical Modeling and Theory (IP) · Causal Inference (IP) · Linear Algebra · Real Analysis

WORK EXPERIENCE

University of California, San Francisco San Francisco, CA
MINDSCAPE Researcher *May 2022 – Present*

- Training a multiple linear regression model in R to predict *C.Diff* risk based off of disease risk factors, improving model performance with techniques like bagging, feature transformation, and cross validation.
- Engineering a clustering model (with principle component analysis and k-means clustering) to categorize *C.Diff* infected patients and find whether spatial, temporal, or environmental factors results in different groupings.
- Built and analyzed a logistic regression model on UCSF clinical COVID-19 data to breakdown the infection timeline into different stages to find associations between social determinants and disease outcomes.

University of California, Berkeley Berkeley, CA
Undergraduate Student Instructor (Macroeconomic Analysis) *Jan 2022 – Present*

- 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 – May 2022*

- Simulating the standard model of life-cycle consumption with hyperbolic preferences (as opposed to the outdated asymptotic preferences model), utilizing R to recreate the model, run trials with different parameters, and compare results.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.

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, family-owned 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

Categorical Data Analysis Project (R) *In Progress*

- Analyzing categorical data from the Riot Game API to practice working with concepts from Alan Agresti's textbook Categorical Data Analysis. Currently, the project is in its infant stage.

SKILLS & INTERESTS

Languages: Python (Numpy, Pandas, PyTorch (familiar), SciPy, sklearn) · R · Stata · Tableau (familiar) · MATLAB · 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: Bouldering · Tetris · Spikeball · Poker · Weightlifting · Language Learning · Vinyl Collecting · Film/Animation