Jonathan Min

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EDUCATION

University of California, Berkeley **Cumulative GPA:** 3.963
Bachelor of Arts in Statistics (Emphasis in Economics) and Applied Mathematics **Graduation**: May 2023
Selected Coursework: Principles & Techniques of Data Science · Mathematical Probability Theory (TBT) · Time Series Analysis · Concepts of Statistics · Causal Inference · Stochastic Processes (TBT) · Linear Algebra · Real/Numerical Analysis

WORK EXPERIENCE

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

- Trained multiple linear regression models and non-parametric models in R to predict *C.Diff* risk from numerous disease risk factors, improving model performance with techniques like bagging, feature transformation, and cross validation.
- Researched methods to improve model stability and generalizability, applying these methods by stratifying the training data into different groups to compare model performance across spatial and temporal features.
- Built and analyzed multiple 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 a class of 500+ students in Berkeley's upper-division macroeconomics course, committing 20+ hours per week to facilitate sections, grade assignments, and refined discussion worksheets 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 2+ hours per week to offer tailored assistance for students, helping students build their economic intuition as well as 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- Simulating the standard model of life-cycle consumption with hyperbolic preferences (as opposed to the outdated asymptotic preferences model), utilizing R to recreate the model, run trials with different parameters, and compare results.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 – Aug 2022*

- 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.

PROJECTS/AWARDS

Project: Balls/Strikes Predictor (JavaScript) *In Progress*

- Engineering a model that predicts balls and strikes based on strike zone data to build my familiarity with tensor-flow.

Poster: *Identifying Drivers of Disparity in COVID-19 Outcomes* *Oct 2022*

- Presented a statistical analysis framework of dividing the progression of COVID-19 disease into different components to better understand associations between socioeconomic factors and disease outcomes.

SKILLS & INTERESTS

Languages/Visualization: Python [Libraries: NumPy, Pandas, SciPy, PyTorch (novice), tensor-flow (novice), Plotly, Seaborn] · R [Libraries: tidyverse, ggplot2] · Tableau (familiar) · Stata (novice) · MATLAB · Julia (novice) · LaTeX · SQL
Machine Learning: Linear/Logistic Regression · Decision Trees · k-means · KNN · PCA · Gradient Descent
Interests: Bouldering · Tetris · Spikeball · Weightlifting · Language Learning · Vinyl Collecting · Film/Animation · Baseball