

Thomas Blakely

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EDUCATION

University of California, Los Angeles December 2024
B.S. Statistics And Data Science; B.S. Mathematics/Economics *GPA: 3.88/4.0*

Las Positas Community College May 2022
AS-T Mathematics; AA-T Economics *GPA: 4.0/4.0*

Courses: Analysis, Computational Statistics, Data Analysis and Regression, Data Science for Economists, Design And Analysis of Experiments, Econometrics, Linear Algebra, Macroeconomic Theory, Mathematical Statistics, Microeconomic Theory, Probability, Statistical Models and Data Mining

SKILLS

Tools: AWS, C++, Excel, Git, LaTeX, Power BI, Python, R, SQL, Tableau
Libraries: Matplotlib, NumPy, Pandas, PyTorch, Scikit-learn, TensorFlow, caret, lubridate, tidyverse, shiny

EXPERIENCE

Las Positas College Student Government | *Director of Finance* Oct. 2021 – May 2022

- Tracked and documented over \$130,000 worth of expenses using Google Sheets. Classified expenses, balanced accounts, and identified errors in expense reporting on previously approved documents and presented them for correction and accurate sign-off.
- Served on the Las Positas and Chabot District's Planning and Budget Committee, advocating for how resources, such as advertising budgets, be distributed.
- Oversaw funding and creation of multiple facilities, including a Student Life Room and a Muslim Prayer Room.

MTH 43 - Introduction to Probability and Statistics | *Grader* Sept. 2021 – Dec. 2021

- Mathematics Grader at Chabot Community College, where I evaluated and provided feedback on homework assignments for a class of 40 students.
- Created practice material and assisted professor with tutoring during office hours.

PROJECTS

Introduction to R: An Interactive Tutorial | *R, Quarto, Netlify* Mar. 2024

- Developed a R tutorial to teach UCLA Economics students how to code in R.
- Utilized learnr, shiny, and the tidyverse libraries to create interactive tutorials. Used Quarto and Netlify to host the tutorial online.
- Presented project to UCLA Economics Faculty, resulting in tutorial being implemented in ECON 41: Statistics for Economists.

IMDB Sentiment Predictor | *Python, R, Jupyter* Dec. 2023

- Used Python and R to perform sentiment analysis on 50,000 IMDB reviews using the Bing Liu and VADER lexicons.
- Preprocessed data by converting it to a standardized format, transforming the text data into numerical form, and performing principal component analysis to reduce data dimensionality.
- Implemented and tested classification performance of several machine learning algorithms, including KNN, Logistic Regression, and Random Forest.

Mask Mandate Survey Analysis | *Excel* May 2022

- Surveyed 112 Las Positas College students on the possibility of a mask mandate for the Fall 2022 semester.
- Used Excel to organize, analyze, and produce charts to visualize key findings.
- Compiled research into a policy brief, which was to be presented during Las Positas College's May 2022 Institutional Planning and Effectiveness Committee meeting.