

# Jack Mannion

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## EDUCATION

### University of California, Berkeley

May 2023

GPA: 3.65

- Bachelor of Arts in Economics
- Intended Minor in Data Science
- Honors: Dean's List Spring 2021
  - Completed Relevant Coursework: Introduction to Economics, Intermediate Macroeconomic Theory, Intermediate Microeconomic Theory, Multivariable Calculus, Introduction to Probability and Statistics
  - Current Relevant Coursework: Financial Economics, Econometrics, Foundations of Data Science, Computational Structures in Data Science

## RESEARCH EXPERIENCE

### University of California, Berkeley

Berkeley, CA

#### Undergraduate Research Associate

September 2021 - Present

- Worked with two UC Berkeley Economics Ph.D. students to research the impact of forecast bias from large banks and institutions like the IMF and World Bank on capital flows to developed and emerging markets
- Built a dataset of over 2 million unique data points coming from economic forecasts made by both private forecasters and international institutions from 2004-2017 using Python and Excel VBA
- Utilized STATA and Python (Pandas and Numpy) to further organize data, create visualizations of the data, and run a preliminary time series analysis of the data

## WORK EXPERIENCE

### Currency Exchange International

Berkeley, CA

#### Currency Exchange Teller

February 2020 – July 2020

- Oversaw the accurate exchange, by hand, between over 80 on-hand worldwide currencies and the United States Dollar (e.g. Canadian Dollar, Iraqi Dinar, Vietnamese Dong)
- Showed trustworthy decision-making skills by ensuring the safe keeping and accurate inventory of a large amount of domestic and foreign currency both in a register and a safe
- Displayed strong communication skills by contacting customers on the telephone with details of their orders and accurately explaining the process of ordering currency while in-store

## ACTIVITIES

### Undergraduate Economics Association

Berkeley, CA

#### General Member

February 2021 – Present

- Gained insight into the field of economics and engaged with fellow students and professors by attending a variety of seminars which focused on prominent topics in economics

## SKILLS

- **Computer Programing Skills:** R (basic), Python (proficient), including: data manipulation, data visualization, table manipulation, list comprehension, higher order functions, Lambda functions, recursion, tree recursion, Numpy, and Pandas
- **Statistics Skills:** probability, hypothesis testing, multivariate OLS regressions
- **Data Science Skills:** Using Python, Excel VBA, and STATA to clean, organize, and visualize data
- **Finance Skills:** covered interest rate parity and arbitrage, call-put parity and arbitrage, creation of options payoff diagrams, Black-Scholes option pricing equation, fixed income, personal experience trading stock and derivatives
- **Economic Skills:** econometrics, Lagrangian maximization with budget constraints, game theory analysis, macroeconomic modeling, understanding macroeconomic policy, reading dense economic research papers, basic knowledge of how to perform economic research in a team environment
- Excellent written and verbal communication skills with strong analytical and mathematical intuition