

YIMIN GUO

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<https://yiminthenovice.github.io/>

EDUCATION

University of Wisconsin-Madison, Madison, WI

Expected May 2022

Master of Science in Econometrics and Quantitative Economics Cumulative GPA: 3.94/4.00

Related Coursework: Advanced Econometrics Series, Data Analytics for Economists, Machine Learning for Economists

Christopher Newport University, Newport News, VA

May 2020

Bachelor of Science in Business Administration, Finance Cumulative GPA: 3.93/4.00

Related Coursework: Python I, Tableau and JMP for Business Analytics, Ordinary Differential Equations (Mathematics)

SKILLS

Data Wrangling: Python (Pandas), R (data.table, dplyr) **Data Management:** MySQL, Microsoft Access

Data Visualization: Python (matplotlib, seaborn), R (ggplot2), Microsoft Excel, Tableau

Machine Learning Packages: Keras, TensorFlow

RELEVANT EXPERIENCE

Department of Economics at Christopher Newport University, Newport News, VA

December 2018-May 2020

Research Assistant (Data Analyst)

- Provided analytical support for three research projects, focusing on dataset cleaning, data manipulation for statistical modeling, and producing visualizations for both academic and general audiences utilizing R and Excel
- Debugged and Improved R scripts that process more than 22 million observations of the U.S. census data following the modular approach in programming to maximize flexibility and reusability of the code
- Named co-author of a paper (under Southern Economic Journal's review) for the insights brought to the project

Captain's Educational Enrichment Fund (CEE Fund), Newport News, VA

September 2018-April 2020

Quantitative Equity Researcher

- Utilized data from Bloomberg terminal to conduct equity valuation with DCF and EBITDA Multiple models, created a model template in Excel that assisted in the decision-making of approximately \$15,000 of investment
- Partnered with other senior analysts to offer training in equity valuation practices to more than 10 junior members
- Gave monthly equity pitch or investment strategies presentation to the portfolio management committee

SELECTED PROJECTS

Impact of Anti-immigration Legislation on Employment

July 2019-May 2020

- Utilized data.table and dplyr packages in R to clean the raw data (extracting critical information, converting object type, merging and reshaping data frames, taking lag values of certain variables, etc.)
- Adjusted the seasonal fluctuations of some time series variables (e.g., quarterly employment) through Seasonal and RJDemetra packages in R using parallelized loops to save more than 80% of the computer's processing time
- Conducted causal inference of anti-immigration law on employment using the Difference-in-Differences technique

Effects of Political Cycles on The Cross-section of U.S. Corporate Bond Returns

December 2020-February 2021

- Converted the IO-SIC Concordance Table from txt file into clean csv file through string manipulation using R
- Obtained industry exposures to government spending in the U.S. from 1967 to 2012 via matrix calculations in Excel

OTHER ACTIVITIES

Department of Economics at University of Wisconsin-Madison, Madison, WI

April 2021-July 2021

Spring 2021 Research Program - Research Assistant

- Assisted in understanding the model construction of a reference paper by replicating its empirical results in Stata
- Wrangled 500MB of individual earnings data in Stata for demonstrating the earnings volatility trend in the U.S.

Discovery to Product at University of Wisconsin-Madison, Madison, WI

September 2021- December 2021

Innovation to Marketing Program - Beyond the Bubble - Project Leader

- Conducted 13 customer interviews to test the product-market fit of our business concept and pivoted the idea from producing explanatory economic content to enriching international students' lives in the U.S. accordingly
- Created four videos that cover cryptocurrency and coronavirus that cumulatively attracted more than 500 views