

YIMIN GUO

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Madison, WI

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

EDUCATION

University of Wisconsin-Madison, Madison, WI

Expected May 2022

Master of Science in Economics Cumulative GPA: 4.00/4.00

Related Coursework: Master's 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, Real Analysis

SKILLS

Data Wrangling: Python, Jupyter Notebook, R

Database Management: MySQL, Microsoft Access

Data Visualization: Tableau, MS Excel

Machine Learning Packages: Glmnet, Keras

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 US census data following the modular approach in programming to maximize flexibility and reusability of the code
- Named coauthor of a paper that is under review of the Southern Economic Journal for the contributions

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 the model templates in Excel that assisted in the decision-making process 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 to the fund's portfolio management committee and industry representatives

SELECTED PROJECTS

Impact of Anti-immigration Legislation on Employment

- Utilized data.table and dplyr packages in R to clean the raw data (extracting key 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 loop to save more than 80% of computer's processing time
- Conducted causal inference of anti-immigration law on employment using the Difference-in-Difference technique

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

- 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 US 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 US

Witruth Capital, Beijing, China

June 2018-August 2018

Equity Researcher Summer Intern

- Worked with senior analysts to conduct extensive company and industry research on the Chinese primary market
- Contacted the potential clients and built relationships with them