Keyi Wang

Email: keyi.wang@temple.edu
Phone: 609-856-1639

Education

Columbia University   MA   *Jan. 2024- May 2025*

➢ Major: Statistics   GPA: 3.7+ (rank: top 10%)

➢ Core courses: Probability, Statistical Inference, Statistical Computing and Introduction to Data Science, Elementary Stochastic Process, Bayesian Statistic, Mordern Analysis

Beijing Forestry University   BA   *Sept. 2019- June 2023*

➢ Major: Finance   GPA: 89/100 (rank: top 15%)

➢ Thesis title: Institutional Investor Attention and Capital Market Stability: Empirical Evidence from the Resilience of Corporate Stock Prices

➢ Core courses: Advanced Mathematics, Linear Algebra, Mathematical Statistics, Statistics Theory, Microeconomics, Macroeconomics, Econometrics, Principles of Accounting, Financial Accounting, Intro to Programming using Python

Publications

➢ Keyi Wang, "An Analysis of the Impact of Dual Crisis on Hong Kong Financial Development," *Journal of Finance Research*, ISSN 2591-7137 (Print), 2591-7145 (Online), Volume 5, Issue 02, October 2021.

Research Projects

Quantitative Drug Benefit-risk Assessment in Clinical Trials Based on Bayesian Data Envelopment Analysis (DEA) Model   *Sep. 2024- Mar.2025*

Supervised by Professor. Baolin Zhang, Beijing Forestry University

➢ **Overview:** Research on institutional advance regulatory evaluation and patient-centered healthcare by providing Bayesian Data Envelopment Analysis (DEA) Model for benefit-risk assessment in clinical trial design.

➢ **Methodology:** By combining Bayesian statistics with DEA, this method takes uncertainty into account when evaluating drug efficacy and generates a probabilistic efficacy score that supports statistical hypothesis testing.

➢ **Results:** Bayesian DEA provides a more nuanced and statistically robust framework for drug benefit-risk assessment, outperforming traditional methods in accurately identifying effective drugs and balancing efficacy with safety under uncertainty.

Institutional investor attention and capital market stability -- Empirical evidence from the resilience of corporate stock prices   *Nov. 2022 - June. 2023*

Supervised by Instructor. Xiaoxiao Song, Beijing Forestry University

➢ **Overview:** Research on institutional investor attention and capital market stability using corporate share price resilience through 2019-2023 A-share market data and corporate financial data.

➢ **Methodology:** Construct resilience and resistance indicators to reflect resilience. OLS and 2SLS are utilized to test the relationship between institutional shareholding and corporate stock price resilience.

➢ **Results:** Institutional investor's attention is significantly positively correlated with the company's stock price resistance, which is conducive to the stability of the capital market.

Carbon Emission Efficiency and Influencing Factors of China's Six Pilot Provinces and Cities of Carbon Emission Trading Based on mSBM-DEA Model   *June 2021 - Apr. 2022*

Supervised by Prof. Tao Qin, Beijing Forestry University

➢ **Overview:** Studied the carbon emission efficiency of Beijing, Tianjin, Shanghai, Chongqing, Hubei, and Guangdong from 2006-2011 and 2014-2019.

➢ **Methodology:** Used the mSBM method in the DEA model to measure carbon emission efficiency and the spatial lag model (SLM) to estimate influencing factors.

➢ **Results:** Identified differences in carbon emission efficiency, assessed the impact of the carbon pilot program, and provided policy recommendations.

National Undergraduate Mathematical Contest in Modeling9(A Study on the Tuition Fee Standards of Chinese Higher Education)   *July 2021 - Sept. 2021*

Supervised by Prof. Quandong Feng, Beijing Forestry University

- ➢ **Overview:** Collected, transformed, and loaded income and expenditure data of several colleges and universities from the National Bureau of Statistics and Statistical Yearbook, defining and calculating the basic tuition fees for the normal operation of the schools.
- ➢ **Methodology:** Developed a multivariate linear regression model using data from the 2009 to 2018 academic years to calculate tuition fees with multiple regression equations and predicted future tuition fees.
- ➢ **Results:** Calculated reasonable tuition fees for three colleges and universities and provided suggestions for relevant departments based on the results.

Hongkong Online Financial Study Program   *Apr.2021-Oct.2021*
- ➢ **Overview:** Analyzed the history and development trends of Hong Kong's financial companies to explore the establishment of Hong Kong as a financial center.
- ➢ **Methodology:** Comparative analysis is used to identify differences in data due to benchmarks and other influencing factors under the same basic data standards, and after the differences are identified by comparative analysis, the reasons behind the differences are explored in one step.
- ➢ **Results:** Drafted and edited the paper "An Analysis of the Impact of Dual Crises on Hong Kong Financial Development," illustrating how to maintain strong competitiveness amid the COVID-19 pandemic.

Cleaning Product Demand Survey on the Young Generation   *Dec. 2020-Mar.2021*
Supervised by Prof. Xiaoyu Zhang, Beijing Forestry University
- ➢ **Overview:** Researched the cleaning needs of young consumers to identify differences in product demand between them and other consumer groups, focusing on Generation Z.
- ➢ **Methodology:** Collected and cleaned data, analyzing effective questionnaire responses from both qualitative and quantitative perspectives.
- ➢ **Results:** Identified product opportunities for Midea cleaning appliances in the Generation Z consumer group and provided feasible suggestions to distinguish Midea from competitors.

Working Experiences

Blue Focus   *Aug. 2023 - Dec. 2023*

Data analysis Intern
- ➢ **Accounting:** Managed monthly billing and quarterly rebate accounting for Microsoft Ads, Kwai, Snapchat, Bing, Pinterest, TrafficJunky, and other mainstream and emerging media.
- ➢ **Data Monitoring:** Monitored KPI progress, mapped data and results, analyzed customer data changes, updated weekly consumption data, and regularly archived media data.
- ➢ **Visualization:** Utilized tools like Giant Cloud Map to build data monitoring index systems and visualizations, proposing data-driven strategies to support business development.

China Insurance Security Fund Co., Ltd.   *Jan. 2021 - Apr. 2021*
Intern, Investment Planning and Management Division
- ➢ **Macroeconomic Monitoring:** Identified key economic indicators and latest news from Wind databases to monitor macroeconomic trends impacting the company, summarizing findings in memos for the leadership team.
- ➢ **Investment Reporting and Optimization:** Designed Excel macros to automate daily calculations of investment portfolio income, net worth, and transactions, creating daily and weekly investment reports. Collected and summarized quarterly investment plans of portfolio managers from 2017 to 2021, and developed a quick screening algorithm for Excel, significantly optimizing transaction screening calculations.

Honors and Awards
- ➢ College Students' Innovative Entrepreneurial Training Plan Program, Beijing Municipal First Prize | June 2021 - Apr. 2022
- ➢ China Undergraduate Mathematical Contest in Modeling, University First Prize | July 2021 - Sept. 2021
- ➢ Market Research Competition (Enterprise Section), University First Prize | Dec. 2020 - Mar. 2021
- ➢ Scholarship, University Third Prize (consecutive two years) | 2019 - 2020, 2020 - 2021

Professional skills
- ➢ Language skills: English (advanced,TOEFL 101 GRE 319+3.5); Mandarin (native)
- ➢ Computer skills: Python, R, Eviews, Matlab, STATA, SPSS, Excel, Wind.