ZHENNING ZHAO

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EDUCATION

Ph.D. Candidate, Economics, The University of Texas at Austin **05/2024 (Expected)**

- Highlighted Courses:
  Coursera/Udacity Courses: Applied Machine Learning with Python, Causality Inference, and A/B Testing
  UT Austin Ph.D. Sequence Field Courses: Macroeconomics, Econometrics, and Empirical Asset Pricing
- Graduate Student Fellowship

MA, Economics, The University of Texas at Austin **2019**

- Highlighted Course:
  Master Level Time Series and Data Mining Course
- GPA: 4.0/4.0

Bachelor's Degree, Mathematical Economics and Finance, CUFE, China **2016**

SELECTED ACADEMIC RESEARCH PROJECT

Uncertainty, Firm Investment, and Financial Constraint Heterogeneity **2023**

(Will present at 2023 Southern Economics Association 93th Annual Meeting)

- Performed casual inference regression using IV techniques on financial report data with Python and Stata.
- Constructed the earning based financial accelerator model.

The Social Media Channel of the FOMC induced Sentiment Shock **2022**

- Trained a state-of-the-art ULMfit machine learning model using Python and fastai library at 82% accuracy.
- Applied text mining technology to identify the sentiment of the tweets.
- Combined with high frequency identification to detect the FOMC meeting induced sentiment changes.

WORK EXPERIENCE

Bank of America (New York, NY) **Summer 2023**

Summer Associate Quantitative Strategist, Data Tools and Solutions, QSG

- Predicted daily US SOFR yield curve changes with time series analysis, PCA, and quantile random forest.
- Created sample trading signals based on the predictions with Sortino ratio higher than the base index.
- Coordinated with multiple groups to deliver the solutions to trader's desk automatically via system.

University of Texas Austin (Austin, TX) **2019 - 2023**

Teaching Assistant and Graduate Research Assistant

Project: Central Bank Digit Currency, Banking, and Zero Lower Bound **Summer 2022**

- Carefully verified the DSGE math model
- Handled model realization with MATLAB codes

Industrial and Commercial Bank of China HQ (Beijing, China) **2016 - 2018**

Assistant Manager, Asset Custody Department

- Maintained and reviewed 50+ mutual fund accounts at the company owning the largest market share.
- Prepared accurate monthly consolidated financial statements and year-end financial reports.
- Presented fund performance report frequently to the investor clients.

ADDITIONAL INFORMATION

CFA Level 2 Candidate **2017**

Research Skills: Quantitative Modeling, Econometrics, Data Analysis, Time Series, Machine Learning, Causal Inference

Computer Skills: Python, LaTeX, MATLAB, Stata, R, SQL