Mengteng Wang

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Education

- **University of Warwick, Warwick Business School (WBS)** *09/2024 - Now*
  PhD in Finance and Economics Coventry, UK
- **University of Wisconsin-Madison (UW-Madison)** *09/2022 - 05/2024*
  Master of Science in Economics Madison, WI, US
- **Zhejiang University (ZJU)** *09/2018 - 07/2022*
  Bachelor of Economics Science in Finance Hangzhou, China

Research

- **Predicting Equity Premium with Shrinkage Estimation Guided by Economic Theory** *06/2023 - Now*
  with: Xiaobin Liu, Yanchu Liu and Tao Zeng
  - **Abstract:** We propose a novel empirical Bayes (EB) method that enhances equity premium forecasting by incorporating economic linkages and theory-implied constraints. The EB framework optimally shrinks coefficients between unrestricted OLS estimates and theory-based restrictions. Empirical results using two large datasets show that EB consistently outperforms traditional OLS, especially under classic economic constraints from Campbell and Thompson (2008) and Pettenuzzo et al. (2014). These findings highlight the importance of embedding economic structure in predictive models.
  - **Keywords:** Empirical Bayes, Shrinkage estimator, Equity premium prediction

Experience

- **Hithink RoyalFlush Information Network Co.,Ltd.** *07/2024 – 09/2024*
  Macro-Finance Research Analyst Internship Hangzhou, China
  - Chinese 10-Year Government Bond Yield Forecast Model
  - LLM-based Gold Price Forecasting Agent
- **University of Illinois Urbana-Champaign** *05/2023 - 03/2024*
  Part-time Research Assistant for Prof. Qiping Xu Remote
  - Performed fuzzy matching of company names across two large datasets from 2007 to 2020.
  - Innovated a new data structure to integrate congressional district data using zip codes, addressing challenges such as shifting postal codes and mixed data formats.
- **University of Wisconsin-Madison** *01/2023 - 12/2023*
  Research Assistant for Prof. Rasmus Lentz Madison, WI, US
  - Optimized computing algorithm for a large Italian labor dataset, comprising 40 million observations.
- **Zhejiang Longwin Investment Management Co.,Ltd.** *01/2022 – 05/2022*
  Quantitative Researcher Internship Hangzhou, China
  - Industry classification enhancement using Gerber statistics and clustering.
- **Zheshang Fund Management Co.,Ltd.** *07/2021 - 09/2021*
  Credit Ranking Researcher Internship Shanghai, China
  - Developed a framework to graph bond yield curves using Python.
  - Built a predictive system for credit ratings based on XGBoost.

Skills

- **Programming Languages:** Python(skilled); MATLAB (skilled); Stata(skilled); Julia(skilled); R(skilled)
- **Volunteer:** More than 300 hours service, e.g. volunteer work in European Art Museum in Hangzhou
- **Machine Learning and LLM Framework:** XGBoost, LSTM, Clustering, Bandit, LangChain, etc.