YI WANG

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ACADEMIC BACKGROUND

YALE UNIVERSITY New Haven, US

Pre-doctoral Research Associate, School of Management *May. 2020 – Present*

NEW YORK UNIVERSITY New York, US

Master of Science in Financial Engineering GPA: 3.9/4.0 *Sept. 2018 – May. 2020*

- Awards: NYU Tandon Merit Scholarship

WUHAN UNIVERSITY Wuhan, China

Bachelor of Economics in Finance GPA: 3.8/4.0 *Sept. 2014 – Jun. 2018*

- Awards: Wuhan University Merit Student Scholarship in each academic year

COURSEWORK HIGHLIGHTS

- Economics: Microeconomics, Macroeconomics, Econometrics, Econometric Model Experiment,
- Mathematics & Statistics: Stochastic Process, Stochastic Calculus, Ordinary Differential Equations, Time Series Analysis, Calculus, Linear Algebra, Probability Theory and Statistics
- Computing & Programming: Machine Learning, C++ Programing, R in Finance, MATLAB Technology and Application, Database Programming Technology, ACCESS Database Programming

WORK IN PROGRESS

Social Attention, Stress Response, and Trading Performance: Evidence from a Randomized Field Experiment

with *Liangfei Qiu, Qili Wang, Xingchen Xu, and Yizhi Liu (alphabetical)*

- Invited Talk at The 32^{nd} Production and Operations Management Society (POMS) Annual Meeting, Orlando, FL, USA, April 2022
- In preparation for submission to ***Management Science***

RESEARCH EXPERIENCE

Financial Technology Related Projects *Nov. 2021 – Present*

Advisor: Prof. Liangfei Qiu

- Designed and implemented a large-scale randomized field experiment involving over 3, 000 users in 12 weeks observational time window
- Estimated the treatment effect and explored underlying mechanisms using difference-in-difference and relative time models through OLS estimation with fixed effects
- Conducted literature review in social platform and behavior finance streams to construct theoretical foundation and develop hypothesis

Banking Across America: Distance and Branch Use *Sept. 2020 – Present*

Advisor: Prof. Alexander Zentefis

- Constructed a new mobility dataset containing information on bank branches and their customer visits. Linked Federal Deposit Insurance Corporation (FDIC)'s Summary of Deposits (SOD) to mobile device data provided by SafeGraph

- Estimated bank branch segregation (racial dissimilarity, racial entropy, and income entropy) to measure the dissimilarity and evenness of different groups' visits to bank branches
- Examined bank branch access by measuring the nearest distance and actual distance traveled to branches by race and income. Estimated gravity equation model to explain the extent to which the race gap in branch use is due to distance barriers

Corporate and Behavioral Finance Related Projects *Jan. 2021 – Present*

Advisor: Prof. Kelly Shue

- Non-proportional thinking project: Brainstormed possible methods to empirically invalidate a new theory of investor thinking; Reviewed event study literature pertaining to firm-level idiosyncratic return reactions and adapted the empirical analysis by applying the new theory
- Gender promotion gap project: Established a county-level index that reflects labor market gender inequality to examine the county-level differences in employees' potential ratings by gender
- Gamestop project: Collected daily and intraday trading and popularity data on GME-related stocks, market indexes, and cryptocurrencies; Constructed Fama-French factors and gathered brokerage-level payment for order flow data

Corporate Finance Related Projects *Jun. 2020 – Oct. 2021*

Advisor: Prof. Song Ma

- Build a video database from different platforms and integrating them through fuzzy matching algorithm
- Analyzed the relationship between firm size and effective tax rate and summarized the related debates
- Built a new dataset to reflect the weight of different industries with the number of firms and employees
- Reviewed literature on influencer marketing and startups, synthesized the findings from the perspectives of influencers, platforms, and startups

Dual Thrust Trading Algorithm on Distributed Python Platform *Sept. 2019 – Dec. 2019*

Advisor: Prof. Song Tang

- Implemented dual-thrust trading strategy (a breakout system that uses the historical price to construct update the look back period) on a distributed Python platform to simulate real-time trading
- Examined the hypothesis on whether outstanding strategies in the back-testing environment consistently outperform in real market

INDUSTRY EXPERIENCE

GENERALI ASSET MANAGEMENT Beijing, China

Quantitative Research Intern, Fixed Income Department *Jun. 2019 – Sept. 2019*

- Built trading models in R for convertible bonds, which focused on up to 170 bonds across the entire Chinese convertible bonds market. Achieved an annualized return of 9.8% in a back-test of 60 months
- Developed hedging models (timing and non-timing) with Treasury futures against interest rate risk for different fixed income portfolios, such as Treasury securities and credit bonds. Calculated the hedging ratios with OLS and CTD methods

CHINA LIANHE CREDIT RATING Beijing, China

Rating Analyst Intern, Structured Finance Department *Jul. 2017 – Oct. 2017*

- Conducted essential assets analysis and created shadow ratings for 29 various CLO credit projects
- Built models in MATLAB using Monte Carlo simulation to conduct quantitative risk analyses and calculate credit default rates

- Analyzed security cash flow structures through stress tests and backtesting to calculate repay levels
- Made preliminary preparation for REITs & CMBS projects. Designed and calculated indices reflecting the market's current situation

Technical Skills

- Python, R, STATA, C++, MATLAB, SAS, LaTeX

Academic Referee

Liangfei Qiu
PricewaterhouseCoopers Associate Professor of Information Systems & Operations Management
Warrington College of Business
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