

Yufan Zhang

60 Crittenden Blvd, Rochester, NY, 14620 | 872-818-6571 | zhangyufan9985@gmail.com | [LinkedIn](#)

EDUCATION

UNIVERSITY OF ROCHESTER

Rochester, NY

PhD in Finance

Expected Jun 2028

- Courses: Modern Value Theory, Theory of Finance, Econometrics, Agency Theory, Empirical Corporate Finance

THE UNIVERSITY OF CHICAGO

Chicago, IL

Master of Science in Financial Mathematics (GPA: 3.82/4.0)

Dec 2022

- Courses: Portfolio Theory & Risk Management, Option Pricing, Computing for Finance in C++, Numerical Methods, Asset Pricing, Stochastic Calculus, Multivariate Statistical Analysis

XI'AN JIAOTONG UNIVERSITY

Xi'an, China

Bachelor of Science in Statistics

Jul 2020

- Courses: Mathematical Statistics, Ordinary Differential Equations, Matrix Analysis, Data Analysis and Statistical Software, Machine Learning, Bayesian Statistics, Statistical Learning, Stochastic Processes, Probability

SKILLS

Computing: Python, C++, MATLAB, Jupyter, R, C, MS Office

Knowledge: Machine Learning, Data Analytics, Portfolio Management, Natural Language Processing, Asset Pricing

Certification: C++ Programming for Financial Engineering with Distinction (Baruch College, 2020)

RESEARCH

INFLATION EXPECTATION FORMATION: EVIDENCE FROM FORECAST REVISIONS

Aug 2022 – Jan 2023

Advisor: Professor Ekaterina Smetanina, Booth School of Business, University of Chicago

- Create a Kalman filter that separates the inflation process to construct forecasts and compare them to the surveys
- Design the Dynamic Factor Models with EM-algorithm to estimate latent variables and forecast CPI

REPLICATION OF THE PROCESS FOR SIGNAL CREATION

Jun 2022 – Apr 2023

Advisor: Professor Dacheng Xiu, Booth School of Business, University of Chicago

- Maintain and update the Python code for the process of signal creation
- Build accounting signals in international stock markets

PREDICTING RETURNS WITH TEXT DATA

Dec 2020 – Oct 2021

Advisor: Professor Dacheng Xiu, Booth School of Business, University of Chicago

- Performed Monte Carlo Simulation to compare the performance of Supervised Sentiment Extraction Algorithm, Dictionary methods, Naïve Bayes and Multinomial Inverse Regression
- Implemented Natural Language Processing on finance text data to extract key words and phrases
- Collected sentiment-charged words with marginal screening statistics, determined sentiment weight for words using Topic Model, and scored new article using maximum likelihood estimation
- Built daily/monthly equal-weighted and value-weighted trading portfolios based on different methods, such as Supervised Sentiment Extraction Algorithm, Dictionary methods, RavenPack and Word Power method
- Investigated the speed of information assimilation and the influence of size and volatility on the sentiment model

MACHINE LEARNING IN ASSET PRICING

Sep 2020 – Nov 2020

Advisor: Professor Dacheng Xiu, Booth School of Business, University of Chicago

- Applied machine learning techniques like regression, random forest and neural network to empirical asset pricing
- Developed efficient and clean Python code according to existing MATLAB code
- Created standard, concise, and visual Jupyter notebooks

TEACHING EXPERIENCE

UNIVERSITY OF CHICAGO BOOTH SCHOOL OF BUSINESS

Chicago, IL

Teaching Assistant of 41100 Applied Regression Analysis (MBA)

Jan 2022 – Mar 2022

- Delivered a range of teaching and assessment activities including tutorials directed towards review of the lecture notes and give commentary on weekly assignments
- Provided effective, timely, and appropriate feedback to students to support their learning