

EDUCATION**COLUMBIA BUSINESS SCHOOL**

GPA: 10.0/10.0

New York, NY

MS, Financial Economics, May 2026

2024 - 2026

Coursework (All at PhD Level): Econometrics and Statistical Inference, Artificial Intelligence (DL & RL), Computing for Business Research, Finance Theory I, Continuous Time Finance, Advanced Derivatives, Financial Econometrics: Time Series, Panel Data, Big Data in Finance, Computational Statistics, Quantitative Investment Process.

NEW YORK UNIVERSITY SHANGHAI

GPA: 3.87/4.0

Shanghai, China

BS, Data Science, May 2024

2020 - 2024

Secondary Major: Business & Finance*Honors:* Business and Economics Honors Program

Relevant Coursework: Linear Algebra, Multivariate Calculus, Probability and Statistics, ODE, Stochastic Processes, Optimization, Game Theory, Machine Learning, Reinforcement Learning, Data Structures, Databases, Volatility Modeling, Futures and Options.

Study Abroad: New York University Courant Institute of Mathematical Sciences & Stern School of Business (Sep.2022-May.2023)

PROFESSIONAL EXPERIENCE**HUATAI SECURITIES**

Shanghai, China

Top 3 Securities Company in China

Jun. - Aug.2023

Quantitative Researcher Intern, Proprietary Trading Department

- Developed 1-min frequency trend-following factors for stock-index futures using price-volume data, 5 selected into factor pool
- Constructed factors for SSE 50 futures leveraging implied volatility and order flow imbalance from ETF options and backtest
- Utilized change point detection via Gaussian Process to identify intraday market regime change and adjust strats aggressiveness, add change point detection as additional feature to LSTM and collaborate with colleagues to prove effectiveness in backtesting
- Enhanced Lasso Regression model for index futures price change prediction through non-negative constraints on coefficients using linear factors, profitability performance beat baseline model in trading simulations and selected for real trading
- Implemented CNN model to predict stock index futures price change based on Time Price Opportunity graph

SOOCHOW SECURITIES

Shanghai, China

Top 10 Securities Company Research Institute in China

Jul. - Oct.2022

Financial Engineering Analyst Intern, Research Institute

- Streamlined stock-selection back testing model by vectorizing loops in NumPy and boost running time by 30%
- Conducted research on stock-selection model based on intraday and overnight momentum and reach 20% long-short annual return before neutralization and 10% long-short annual return after neutralization on out-sample performance tests
- Optimized the intraday and overnight momentum portfolio for long-only constraint under mean-variance criterion via cvxpy
- Designed Value at Risk predicting model using fundamental indicators to estimate VaR in various periods

SENSETIME

Shanghai, China

Hong Kong-listed Tech Company focusing on Artificial Intelligence

Jun. - Aug.2021

Software Developer Intern, IT Department

- Collaborated with other departments to test new platforms with KALI (Linux virtual machine for web-security test)
- Ameliorated Siem Platform to visualize daily web attacks and vulnerabilities (Python, SQL, HTML)

OTHER EXPERIENCE**Business and Economics Honors Thesis: Deep Reinforcement Learning for Hedging**

Jan. - May.2024

- Researched on optimizing hedging strategies under trading costs using Deep Reinforcement Learning algorithms
- Trained Soft Actor-Critic agents to maximize mean-variance reward under stochastic volatility market model
- Beat practitioner's delta and other Deep Reinforcement Learning algorithms (DDPG) in hedging performance

Database Project: Flight ticket reservations system

Oct. - Dec.2023

- Developed online flight ticket reservation system using Python (Flask), CSS, HTML and MySQL database
- Built the system from scratch with 4000+ lines of code and dynamically visualize order records

ADDITIONAL INFORMATION

Technical Skills: Python (NumPy, Pandas, PyTorch, Optuna, Talib, gplearn, etc.), R (tidyverse, forecast, rugarch, rmgarch), SQL

Certifications: C++ Programming for Financial Engineering Certificate from Baruch College MFE

Languages: English (fluent), Chinese (native)

Interests: poker, weightlifting, bassoon (university orchestra), soccer (university team), bartending