

Yu Wang

Linkedin: <https://www.linkedin.com/in/yu-wang/>

Github: <https://github.com/ZedRover>

Email : yu.wang@outlook.my

Mobile : +86 13341602330/+1 9318055554

EDUCATION

- **University of South Florida** Tampa, US
Ph.D; Industrial and Management Systems Engineering Expected Enrollment: Sep 2024
Research interests: Deterministic Global Optimization, Optimal Decision Tree, Trustworthy Machine Learning
- **Shanghai Jiao Tong University** Shanghai, CN
BBA; Major in Business Data Science; Minor in Finance; Sep 2019 - Jun 2023
Courses: Management Science, Machine Learning, Artificial Intelligence, Natural Language Process, Reinforcement Learning.

SKILLS SUMMARY

- **Languages:** Python, Julia, C++, MATLAB
- **Tools:** Docker, GIT, JIRA, Linux, Bash

EXPERIENCE

- **Egret Quant** Shanghai, CN
Reinforcement Learning Researcher (Intern) Oct 2022 - Current
 - **DRL for Portfolio Management:** Building end-to-end portfolio management strategies using deep reinforcement learning algorithms. Using State-Action embedding methods to solve the problems caused by the large number of possible states and actions.
 - **Forecasting Models:** Conducting research on enhancing the performance and robustness of deep learning models in predicting daily returns for A-share stocks.
 - **Alpha-Mining Framework:** Constructing and combining alpha factors using deep reinforcement learning to obtain a large number of factors with IC higher than 0.02.
- **Kafang Tech** Shanghai, CN
HFT Quantitative Researcher (Intern) Jul 2022 - Oct 2022
 - **Volatility Prediction:** Constructing signals and models to predict high frequency volatility of commodity futures.
 - **High Frequency Market Making:** Research on high frequency market making strategies of commodity futures. Constructing simulator for maker orders and using reinforcement learning and deep learning models to get optimal actions.
- **Bright Ridge Investments** Shanghai, CN
HFT Quantitative Researcher (Intern) Jul 2021 - Jan 2022
 - **Trading Signals:** Research and optimization of high frequency trading signals to improve the performance of high frequency signals in real trading.
 - **Spoofing Detection:** Build algorithms to detect and reject *Spoofing* transactions.
 - **Strategy Optimization:** Constructing and developing trading strategies, tracking the actual performance of strategies, and making improvements and optimizations.

ACADEMIC PROJECTS

- **Deep Reinforcement Learning Based Quantitative Investment:** Developed trading strategies of China A-shares using deep reinforcement learning algorithms. Built a simulated market environment and comparing the performance of different DRL algorithms. (Sep '22)
- **Deep Learning Sequence Prediction and Decision-Making Methods in Quantitative Trading:** Reproduced temporal relational ranking model(*Feng F, 2019*). Implemented an end-to-end stock selection model, capturing time series information and stock interrelationships using LSTM and GNN. (Apr '21)
- **Research of Investment Strategies for Cryptocurrency:** Optimized portfolio of cryptocurrency and maximized the Sharpe ratio of the portfolio using the latest linear merged optimization method (*Tu and Zhou, 2011, JFE*). (Oct '20)

HONORS AND AWARDS

- SJTU Mathematical Modeling Competition First Prize, Sep 2021
- MCM/ICM Honorable Mention, Apr 2021