

# Yifei Zhang

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## Education

### B.Sc. in Computer Science and Technology (FinTech)

*Department of Computer Science and Technology, Top Talent Class*

### M.Sc. in Management Science and Engineering

*School of Management & Engineering, supervised by Prof. Honghai Yu*

Nanjing University

Sep 2020 – Jun 2024

Nanjing University

Sep 2024 – Jun 2027

## Intern Experience

### School of Data Science, CUHK-Shenzhen

Jun 2024 – Mar 2025

*Research intern advised by Prof. Benyou Wang*

### ML Group, Microsoft Research Asia (MSRA)

May 2025 – Jan 2026

*Research intern advised by Weiqing Liu and Xiao Yang*

## Research & Projects

### UCFE Benchmark

Aug 2024 – Jan 2025

*Advised by Prof. Benyou Wang, Prof. Honghai Yu, and Jimin Huang*

Project Leader

- \* Designed **UCFE Benchmark**, a user-centric financial expertise evaluation framework addressing limitations of existing benchmarks in dynamic interaction and multi-turn dialogue.
- \* Led survey of **804 participants** and constructed dataset with 330 entries across 17 task types; achieved strong human alignment (Pearson 0.78) using **GPT-4o** simulator and **LLM-AS-JUDGE**.

### TwinMarket

Oct 2024 – Mar 2025

*Advised by Prof. Benyou Wang, Prof. Honghai Yu*

Project Leader

- \* Led development of **TwinMarket**, a BDI-based multi-agent framework using LLMs to simulate investor behavior and social interactions in A-stock financial markets.
- \* Scaled to **1,000+ agents**, successfully replicating key financial phenomena (fat-tailed returns, volatility clustering) and emergent social dynamics (information cascades, opinion leaders).

### RD-Agent(10,000 + GitHub stars)

May 2025 – Jan 2026

*Advised by Weiqing Liu and Xiao Yang*

Core Contributor

- \* **MLE**: Reframed automated ML engineering from tree search to gradient-based optimization, achieving **35.1% medal rate** (SOTA) under closed-world protocol.
- \* **MLE**: Designed scaling experiments demonstrating that gradient-based methods increasingly outperform tree search as model reasoning capability improves. (*Submitted to ACL 2026*)
- \* **Finetune**: Formulated autonomous LLM fine-tuning as joint optimization over data processing and training configuration, extending AutoML to the LLM era. (*To be submitted to ICML 2026*)

### AI-Trader (10,000+ GitHub Stars)

Nov 2025 – Jan 2026

*Collaboration with HKUDS Lab, HKU*

Project Leader

- \* Led development of **A-share market module**, extending the LLM-based trading agent framework to support Chinese equity markets with T+1 settlement,  $\pm 10\%$  price limits, and market-specific trading rules. (*To be submitted to ICML 2026*)

## Publications

### UCFE: A User-Centric Financial Expertise Benchmark for Large Language Models

*NAACL Findings 2025*

### TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets

*NeurIPS 2025 & Best Paper Award in Financial AI @ ICLR 2025*

## Honors & Awards

People's Scholarship of Nanjing University

Oct 2021 & Nov 2022

Elite Scholarship, Top Talent Class of Nanjing University (**top 30%**)

Nov 2021

Excellence Scholarship, Top Talent Class of Nanjing University (**top 15%**)

Dec 2023

Second Prize, Third "Xueshi Cup" Academic Paper Competition (**top 15%**)

May 2024

China National Scholarship for Master's Students, Nanjing University (**top 0.2%**)

Oct 2025