Yifei Zhang

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Education

M.Sc. in Financial Engineering and FinTech — **Nanjing University**
School of Management & Engineering, supervised by Prof. Honghai Yu — *Sep 2024 – Jun 2027*

B.Sc. in Computer Science and Technology (FinTech) — **Nanjing University**
*Department of Computer Science and Technology, **Top Talent Class*** — *Sep 2020 – Jun 2024*

Intern Experience

ML Group, Microsoft Research Asia (MSRA) — *May 2025 – Jan 2026*
Research intern advised by Xiao Yang

School of Data Science, CUHK-Shenzhen — *Jun 2024 – Mar 2025*
Research intern advised by Prof. Benyou Wang

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 utilizing LLMs to model investor behavior and social media interactions in 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(9,000 + GitHub stars) — *May 2025 – Nov 2025*
Advised by Xiao Yang — *Core Contributor*

* Led **30+ PRs** including refactoring data description module, optimizing Runner logic, and enhancing system stability and hyperparameter workflows.
* Developing **autonomous fine-tuning** pipeline, responsible for designing and implementing autonomous data processing workflows to enable adaptive model optimization.

AI-Trader(9,000 + GitHub stars) — *Nov 2025 – Present*
Work closely with HKUDS Group — *Project Leader*

* Independently implemented **A-share market module**, extending the original US equity framework to support Chinese stock market trading logic and regulations.
* Designed and integrated market-specific features including T+1 settlement, price limit mechanisms, and A-share trading rules, ensuring compatibility with existing backtesting infrastructure.

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 and 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*