

Zhang Yifei

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Education

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

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

Intern Experience

School of Data Science The Chinese University of Hong Kong, Shenzhen
Research intern advised by Prof. Benyou Wang Jun 2024 – Mar 2025

ML Group Microsoft Research Asia (MSRA)
Research intern advised by Prof. Xiao Yang May 2025 – Nov 2025

Research & Projects

UCFE Benchmark Aug 2024 – Jan 2025
Advised by Prof. Benyou Wang, Prof. Honghai Yu, and Jimin Huang Project Leader

- * Designed and developed the **UCFE Benchmark**, an innovative user-centric financial expertise evaluation framework, addressing the limitations of existing benchmarks **lacking dynamic interaction and multi-turn dialogue**.
- * Led a survey of **804 participants** to gather feedback on financial task requirements and constructed a dataset with 330 entries across 17 task types.
- * Utilized **GPT-4o** as user simulator and **LLM-AS-JUDGE** for evaluation; achieved strong alignment with human preferences (Pearson 0.78).

TwinMarket Oct 2024 – Mar 2025
Advised by Prof. Benyou Wang, Prof. Honghai Yu Project Leader

- * Led the development of **TwinMarket**, a multi-agent framework based on the BDI framework, utilizing LLMs to model investor behavior and social media interactions in financial markets, exploring the connection between individual behavior and emergent market phenomena.
- * Scaled to over **1,000 agents**, successfully replicating key financial phenomena (e.g., fat-tailed returns, volatility clustering), and emergent complex social dynamics such as information cascades and the rise of opinion leaders.

RD-Agent May 2025 – Nov 2025
Advised by Xiao Yang Core Contributor

- * Drove architecture advancement as a core contributor for **RD-Agent (>7,800 GitHub stars)**, leading **20+ major feature and quality PRs**—including refactoring the data description module for scalability, optimizing Runner logic, and enhancing system stability and hyperparameter workflows.
- * Led adaptation for emerging LLM frameworks such as **DeepSeek**, improving extensibility and ecosystem support for RD-Agent.

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 (Selected)

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 of Nanjing University (**top 15%**) May 2024