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 (>6,700 GitHub stars)**, leading **10+ 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
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*