

Zhang Yifei

Gulou Campus, Nanjing University, No.22 Hankou Road, Gulou District, Nanjing, Jiangsu Province, China |
(+86)182-5123-9810 | yf_zhang@smail.nju.edu.cn | Postcode: 210093 | HomePage: hoder-zyf.github.io

EDUCATION

Department of Computer Science and Technology

B.Sc. in Computer Science and Technology (FinTech) Top Talent Class

Nanjing University

Sep 2020 – Jun 2024

School of Management & Engineering

M.Sc. in Financial Engineering and FinTech

Supervisor: Prof. [Honghai Yu](#)

Nanjing University

Sep 2024 – Jun 2027

INTERN EXPERIENCE

School of Data Science

Research intern advised by Prof. [Benyou Wang](#)

The Chinese University of Hong Kong, Shenzhen

Jun 2024 – Mar 2025

- Following Prof. [Benyou Wang](#) to conduct research on financial LLMs and Agent-based social simulations .

RESEARCH & PROJECTS

Open-FinLLMs

Jun 2024 – Oct 2024

Advised by Prof. [Benyou Wang](#), Prof. [Honghai Yu](#) and [Jimin Huang](#)

Core Contributor

- Participated in the development of **FinLLaVA-8B**, trained and **open-sourced** the **first** multimodal LLM for financial applications via LLaVA framework, fine-tuned with 1.43 million image-text instruction pairs, capable of handling complex financial tables and chart data.
- Created and open-sourced a financial benchmark dataset for financial images and tables, with **FinLLaVA-8B** achieving state-of-the-art (SOTA) among open-source models at the time, improving performance by approximately 15%.

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**, to test LLMs' capabilities in real-world financial tasks.
- Led a user survey with 804 participants, gathering feedback on financial task requirements, and constructed a dataset with 330 entries and 17 task types, supporting zero-shot and few-shot multi-turn dialogue evaluation, enhancing the comprehensiveness of the assessment.
- Utilized **GPT-4o** as a user simulator and employed the **LLM-AS-JUDGE** method to evaluate the capabilities of 11 LLMs, achieving high consistency with human preferences (Pearson correlation coefficient of 0.78), validating the reliability of the evaluation approach.

TwinMarket

Oct 2024 – Mar 2025

Advised by Prof. [Benyou Wang](#), Prof. [Honghai Yu](#)

Project Leader

- Led the development of **TwinMarket**, an innovative 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.
- Developed a scalable market simulation supporting **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, achieving high correlation with real-world markets.

PUBLICATIONS

Open-FinLLMs: Open Multimodal Large Language Models for Financial Applications

Jimin Huang, Mengxi Xiao, Dong Li, Zihao Jiang, Yuzhe Yang, **Yifei Zhang**, et al. *arXiv preprint 2408.11878, 2024.*

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

NAACL Findings 2025

Yuzhe Yang*, **Yifei Zhang***, Yan Hu*, Yilin Guo, Ruoli Gan, Yueru He, Mingcong Lei, Xiao Zhang, Haining Wang, Qianqian Xie, Jimin Huang, Honghai Yu, and Benyou Wang *arXiv preprint 2410.14059*

TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets

Best Paper Award in Financial AI @ ICLR 2025 & selected for **oral** presentation at **ICLR 2025**

Yuzhe Yang*, **Yifei Zhang***, Minghao Wu*, Kaidi Zhang, Yunmiao Zhang, Honghai Yu, Yan Hu, and Benyou Wang *arXiv preprint 2502.01506*

HONORS AND AWARDS (SELECTED)

People's Scholarship of Nanjing University	<i>Oct 2021 & Nov 2022</i>
Elite Scholarship, Top Talent Class of Nanjing University (top 30%)	<i>Nov 2021</i>
Excellence Scholarship, Top Talent Class of Nanjing University (top 15%)	<i>Dec 2023</i>
Second Prize, Third "Xueshi Cup" Academic Paper Competition of Nanjing University (top 15%)	<i>May 2024</i>