

Yuzhe (Toby) Yang

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Research Interest

My research focuses on building reliable and trustworthy AI systems that bridge the gap between machines and the real world. I am particularly interested in **Human-AI Interaction** [C2], **Trustworthy NLP** [C3] and **Socially Aware NLP** [C1]. My vision is to enhance the social intelligence of (vision) language models, empowering them to not only understand the principles of the physical world but also to gain insight into complex social environments, enabling reliable and meaningful interactions with humans.

Education

The Chinese University of Hong Kong, Shenzhen
B.Eng. in Computer Science & Engineering

Sep. 2021 – May 2025
Shenzhen, China

Experiences

UCSB ERIC Lab

Visiting Student (Advisor: Xin Eric Wang)
Topic: Agent, Trustworthy NLP

Jul. 2025 – Present
Santa Barbara, CA, USA

CUHK-Shenzhen NLP Group

Undergraduate Research Assistant (Advisors: Benyou Wang, Yan Hu)
Topic: Multi-Agent System [C1], Human-AI Interaction [C2], Trustworthy NLP [C3]

Jun. 2024 – Present
Shenzhen, China

School of Management & Engineering, Nanjing University

Undergraduate Research Assistant (Advisor: Honghai Yu)
Topic: AI-driven Social and Economic Simulation [C1]

Aug. 2024 – Jan. 2025
Nanjing, China

TheFinAI

Researcher (Advisors: Jimin Huang, Qianqian Xie)
Topic: Financial (Vision) Language Model [P1]

Jun. 2024 – Oct. 2024
Remote

School of Data Science, CUHK-Shenzhen

Undergraduate Research Assistant (Advisor: Jianfeng Mao)
Topic: Spatial-Temporal Data Mining [J1]

Aug. 2023 – Jun. 2024
Shenzhen, China

Publications

(* indicates equal contribution)

Conference & Workshop Papers

- [C1] **Yuzhe Yang***, Yifei Zhang*, Minghao Wu*, Kaidi Zhang, Yunmiao Zhang, et al. *TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets*. 2025. URL: <https://arxiv.org/abs/2502.01506>. **Best Paper Award, Travel Grant Award** (ICLR 2025 Workshop on Advances in Financial AI).
- [C2] **Yuzhe Yang***, Yifei Zhang*, Yan Hu*, Yilin Guo, Ruoli Gan, et al. "UCFE: A User-Centric Financial Expertise Benchmark for Large Language Models". In: *Findings of the Association for Computational Linguistics: NAACL 2025*. Ed. by Luis Chiruzzo, Alan Ritter, and Lu Wang. Albuquerque, New Mexico: Association for Computational Linguistics, 2025, pp. 5429–5448. URL: <https://aclanthology.org/2025.findings-naacl.300/>.
- [C3] Zihao Li, Xu Wang, **Yuzhe Yang**, Ziyu Yao, Haoyi Xiong, et al. "Feature Extraction and Steering for Enhanced Chain-of-Thought Reasoning in Language Models". In: *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing*. Suzhou, China, 2025. URL: <https://arxiv.org/abs/2505.15634>.

- [C4] Jiaqi Wu, Simin Chen, Jing Tang, **Yuzhe Yang**, Yiming Chen, et al. “FDPT: Federated Discrete Prompt Tuning for Black-Box Visual-Language Models”. In: *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*. 2025.

Journal Papers

- [J1] Chi Li, Xixian Qi, **Yuzhe Yang**, Zhuo Zeng, Lianmin Zhang, et al. “FAST-CA: Fusion-based Adaptive Spatial–Temporal Learning with Coupled Attention for airport network delay propagation prediction”. In: *Information Fusion* 107.1 (2024), p. 102326. URL: <https://www.sciencedirect.com/science/article/pii/S1566253524001040>.

Preprints & Technical Reports

- [P1] Jimin Huang, Mengxi Xiao, Dong Li, Zihao Jiang, **Yuzhe Yang**, et al. *Open-FinLLMs: Open Multimodal Large Language Models for Financial Applications*. 2025. URL: <https://arxiv.org/abs/2408.11878>.
- [P2] Jiaqi Wu, Simin Chen, **Yuzhe Yang**, Yijiang Li, Shiyue Hou, et al. *FedDTPT: Federated Discrete and Transferable Prompt Tuning for Black-Box Large Language Models*. 2024. URL: <https://arxiv.org/abs/2411.00985>.

Awards

Best Paper Award (ICLR 2025 Workshop on Advances in Financial AI)	2025
Travel Grant Award (ICLR 2025 Workshop on Advances in Financial AI)	2025
Kaggle Silver Medal (AI Mathematical Olympiad - Progress Prize 2)	2025
Undergraduate Research Award (CUHK-Shenzhen)	2024, 2025
Outstanding College Contribution Award (CUHK-Shenzhen)	2021, 2022

Presentations

TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets

- Guest lecture for CSC6052, Spring 2025, CUHK-Shenzhen Apr. 2025
- Contributed talk at the ICLR 2025 Workshop, Singapore Apr. 2025
- Invited talk at the Wisemodel Open-source Series (Virtual) May 2025

Projects

Quant-GPT: Money is All You Need | PyTorch, Transformers, ChromaDB

May 2024

🌀 *Multi-Agent system for A-share market investment decisions.*

- Fine-tuned LLM with sentiment analysis and real-world market data integration
- Implemented RAG and multi-agent systems for dynamic financial news synthesis
- Achieved Sharpe Ratio: 0.40, Annualized Return: 7.26%, Max Drawdown: 13.61%

Travel Insurance Recommendation AI System | PyTorch, LangChain

Apr. 2024

🌀 *Spatial-Temporal model for flight delay prediction and personalized travel insurance recommendation.*

- Fine-tuned LLM using insurance corpus for domain-specific question-answering
- Achieved 83% accuracy in identifying user intent for insurance recommendations
- Integrated GNN-based deep learning and LLM agents for delay prediction and sentiment assessment

Skills

Programming Languages: Python, C/C++, HTML/CSS

Developer Tools: Pytorch, Transformers, LangChain, Faiss, Git, Slurm

Services

Reviewer: IJCAI 2025, ICLR 2025 Workshop, ACL 2025 SRW

Organizer: Reading Seminar at CUHK-Shenzhen