

Yuzhe (Toby) Yang

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Short Bio

Yuzhe (Toby) Yang is a final-year undergraduate student at The Chinese University of Hong Kong, Shenzhen. His research focuses on building reliable and trustworthy AI systems that bridge the gap between machines and the real world. His interests include (vision) language models, interactive agents, and model interpretability. He aims to improve the robustness, alignment, and transparency of AI systems through grounded reasoning, world modeling, and the analysis of internal mechanisms in large language models.

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 [C4]

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, P3]

Aug. 2023 – Jun. 2024
Shenzhen, China

Publications

(† indicates equal contribution)

Conference & Workshop Papers

- C1. **Yuzhe Yang**[†], Zhang[†], Y., Wu[†], M., Zhang, K., Zhang, Y., *et al.* *TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets* 2025. <https://arxiv.org/abs/2502.01506>.
Best Paper Award, Travel Grant Award (ICLR 2025 Workshop on Advances in Financial AI).
- C2. **Yuzhe Yang**[†], Zhang[†], Y., Hu[†], Y., Guo, Y., Gan, R., *et al.* *UCFE: A User-Centric Financial Expertise Benchmark for Large Language Models* in *Findings of the Association for Computational Linguistics: NAACL 2025* (Albuquerque, New Mexico, Apr. 2025). <https://aclanthology.org/2025.findings-naacl.300/>.
- C3. Wu, J., Chen, S., Tang, J., **Yuzhe Yang**, Chen, Y., *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)* (Hawaii, USA, Oct. 2025).

C4. Li, Z., Wang, X., **Yuzhe Yang**, Yao, Z., Xiong, H. & Du, M. *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, Nov. 2025). <https://arxiv.org/abs/2505.15634>.

Journal Papers

J1. Li, C., Qi, X., **Yuzhe Yang**, Zeng, Z., Zhang, L. & Mao, J. FAST-CA: Fusion-based Adaptive Spatial–Temporal Learning with Coupled Attention for airport network delay propagation prediction. *Information Fusion* 107, 102326. <https://www.sciencedirect.com/science/article/pii/S1566253524001040> (2024).

Preprints & Technical Reports

P1. Huang, J., Xiao, M., Li, D., Jiang, Z., **Yuzhe Yang**, et al. *Open-FinLLMs: Open Multimodal Large Language Models for Financial Applications* 2025. <https://arxiv.org/abs/2408.11878>.
P2. Wu, J., Chen, S., **Yuzhe Yang**, Li, Y., Hou, S., et al. *FedDTPT: Federated Discrete and Transferable Prompt Tuning for Black-Box Large Language Models* 2024. <https://arxiv.org/abs/2411.00985>.
P3. Li, C., Lei, M., Wu, J., **Yuzhe Yang**, Pan, Z., et al. *Integrative Mean-Field Epidemic Model and Adaptive Graph Learning for Network-wide Delay Propagation Dynamics Prediction* 2024.

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
🌀 <i>Multi-Agent system for A-share market investment decisions.</i>	
• 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%	

Skills

Programming Languages: Python, C/C++, HTML/CSS
Developer Tools: Pytorch, Transformers, LangChain, Faiss, Git, Slurm