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

University of California, Santa Barbara   2025.06 – Present
Visiting Student   Santa Barbara, CA, USA

The Chinese University of Hong Kong, Shenzhen   2021.09 – 2025.05
B.Eng. in Computer Science & Engineering   Shenzhen, China

Research Experiences

CUHK-Shenzhen NLP Group   2024.06 – Present
Undergraduate Research Assistant (Advisors: Benyou Wang, Yan Hu)   Shenzhen, China
Topic: Multi-Agent System [C2], Human-AI Interaction [C1], Trustworthy NLP [P2]

School of Management & Engineering, Nanjing University   2024.08 – 2025.01
Undergraduate Research Assistant (Advisor: Honghai Yu)   Nanjing, China
Topic: AI-driven Social and Economic Simulation [C2]

TheFinAI   2024.06 – 2024.10
Researcher (Advisors: Jimin Huang, Qianqian Xie)   Remote
Topic: Financial (Vision) Language Model [P1]

School of Data Science, CUHK-Shenzhen   2023.08 – 2024.06
Undergraduate Research Assistant (Advisor: Jianfeng Mao)   Shenzhen, China
Topic: Spatial-Temporal Data Mining [P4, J1]

Publications

(† indicates equal contribution)

Conference & Workshop Papers

C1. **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/.

C2. **Yuzhe Yang**[†], Zhang[†], Y., Wu[†], M., Zhang, K., Zhang, Y., Yu, H., Hu, Y. & Wang, B. *TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets* 2025. arXiv: 2502.01506 [cs.CE]. https://arxiv.org/abs/2502.01506.
     Best Paper Award, Travel Grant Award (ICLR 2025 Workshop on Advances in Financial AI).

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 & Under Review

P1. Huang, J., Xiao, M., Li, D., Jiang, Z., **Yuzhe Yang**, *et al. Open-FinLLMs: Open Multimodal Large Language Models for Financial Applications* 2025. arXiv: 2408.11878 [cs.CL]. https://arxiv.org/abs/2408.11878.

P2. 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* 2025. arXiv: 2505.15634 [cs.CL]. https://arxiv.org/abs/2505.15634.

P3. Wu, J., Chen, S., Tang, J., **Yuzhe Yang**, Chen, Y., Wang, L., Lin, S., Wang, Z., Chen, W. & Tian, Z. *FDPT: Federated Discrete Prompt Tuning for Black-Box Visual-Language Models* 2025.

P4. Li, C., Lei, M., Wu, J., **Yuzhe Yang**, Pan, Z., Qian, X. & Mao, J. *Integrative Mean-Field Epidemic Model and Adaptive Graph Learning for Network-wide Delay Propagation Dynamics Prediction* 2024.

P5. Wu, J., Chen, S., **Yuzhe Yang**, Li, Y., Hou, S., Jing, R., Wang, Z., Chen, W. & Tian, Z. *FedDTPT: Federated Discrete and Transferable Prompt Tuning for Black-Box Large Language Models* 2024. arXiv: 2411.00985 [cs.CL]. 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)	2022

Presentations

TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets

• Guest lecture for CSC6052, Spring 2025, CUHK-Shenzhen	2025.04
• Contributed talk at the ICLR 2025 Workshop, Singapore	2025.04
• Invited talk at the Wisemodel Open-source Series (Virtual)	2025.05

Technical 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
Organizers: Reading Seminar at CUHK-Shenzhen