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
Visiting Student — 2025.06 – Present

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

Research Experiences

CUHK-Shenzhen NLP Group
Undergraduate Research Assistant (Advisors: Benyou Wang, Yan Hu) — 2024.06 – Present

School of Management & Engineering, Nanjing University
Undergraduate Research Assistant (Advisor: Honghai Yu) — 2024.08 – 2025.01

TheFinAI
Researcher (Advisors: Jimin Huang, Qianqian Xie) — 2024.06 – 2024.10

School of Data Science, CUHK-Shenzhen
Undergraduate Research Assistant (Advisor: Jianfeng Mao) — 2023.08 – 2024.06

Awards & Honors

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

Publications

Google Scholar
(† indicates equal contribution)

Conference & Workshop Papers

C1. **Yuzhe Yang**†, Zhang†, Y., Hu†, Y., Guo, Y., Gan, R., He, Y., Lei, M., Zhang, X., Wang, H., Xie, Q., Huang, J., Yu, H. & Wang, B. *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 (ICLR 2025 Workshop on Advances in Financial AI).

Preprints & Under Review

P1. Huang, J. *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. 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.

P3. 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.

P4. 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.

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).

Presentations

TwinMarket: A Scalable Behavioral and Social Simulation for Financial Markets

- Guest lecture for CSC6052, Spring 2025 (CUHK-Shenzhen) [link] 2025.03
- Contributed talk at the ICLR 2025 Workshop (Singapore) [link] 2025.04
- Invited talk at the Wisemodel Open-source Series (Virtual) [link] 2025.05

Services

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

Latest Version
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