

# 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

## 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)  
Under Review at *NeurIPS 2025*.
- [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 (Findings of NAACL)*. 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 (EMNLP)*. 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>.

## Experiences

### UCSB ERIC Lab

Visiting Student (Advisor: [Prof. Xin Eric Wang](#))  
Topic: Agent, Trustworthy NLP

Jul. 2025 – Present  
Santa Barbara, CA, USA

### CUHK-Shenzhen NLP Group

Undergraduate Research Assistant (Advisors: [Prof. Benyou Wang](#), Dr. 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: [Prof. Honghai Yu](#))  
Topic: AI-driven Social and Economic Simulation [[C1](#)]

Aug. 2024 – Jan. 2025  
Nanjing, China

### TheFinAI

Researcher  
Topic: Financial (Vision) Language Model [[P1](#)]

Jun. 2024 – Oct. 2024  
Remote

### China Telecom

Internship  
Topic: Time Series Analysis, GIS Data Analysis

Jan. 2024 – Mar. 2024  
Shenzhen, China

### School of Data Science, CUHK-Shenzhen

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

Aug. 2023 – Jun. 2024  
Shenzhen, China

## Awards

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

References available upon request.