

# Yuzhe (Toby) Yang

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 TobyYang7  
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## Education

University of California, Santa Barbara  
Visiting Student

Jun. 2025 – Present  
Santa Barbara, CA, USA

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

Sep. 2021 – May 2025  
Shenzhen, China

## Research 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 [C3], Human-AI Interaction [C2], Trustworthy NLP [P2]

Jun. 2024 – Present  
Shenzhen, China

School of Management & Engineering, Nanjing University  
Undergraduate Research Assistant (Advisor: Honghai Yu)  
Topic: AI-driven Social and Economic Simulation [C3]

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 [P3, J1]

Aug. 2023 – Jun. 2024  
Shenzhen, China

## Publications

(† indicates equal contribution)

### Conference & Workshop Papers

- C1. 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* in *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)* (Hawaii, USA, Oct. 2025).
- C2. **Yuzhe Yang**<sup>†</sup>, Zhang<sup>†</sup>, Y., Hu<sup>†</sup>, 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. **Yuzhe Yang**<sup>†</sup>, Zhang<sup>†</sup>, Y., Wu<sup>†</sup>, M., Zhang, K., Zhang, Y., Yu, H., Hu, Y. & Wang, B. *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).

### 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. 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. <https://arxiv.org/abs/2505.15634>.
- 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. <https://arxiv.org/abs/2411.00985>.

## 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

## 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

**Organizer:** Reading Seminar at CUHK-Shenzhen