

Chenyu Zhou

Research Interests: LLM, Agents, Optimization, FinTech

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Education

Shanghai Jiao Tong University

Ph.D. in Management Science and Engineering

Institute of Intelligent Computing, Antai College of Economics and Management
Advisors: Prof. Yinyu Ye & Prof. Dongdong Ge

Shanghai, China

2024 - Present

The Chinese University of Hong Kong, Shenzhen

M.Phil. in Computer and Information Engineering

Advisor: Prof. Wei Cai

Shenzhen, China

2022 - 2024

China University of Petroleum, Beijing

B.M. in Information Management and Information System

B.Eng. in Computer Science and Technology

Beijing, China

2017 - 2021

Work Experience

OPPO

LLM Agent Research Intern

Shanghai, China

Dec. 2025 - Present

Cardinal Operations

LLM Research Intern

Shanghai, China

Jul. 2024 - Present

Tencent

AI Research Intern

Shenzhen, China

Aug. 2023 - Jan. 2024

Meituan

AI Research Intern

Beijing, China

Jun. 2023 - Aug. 2023

Ubiquant Investment

Quantitative Research Intern

Shenzhen, China

Jul. 2022 - Sep. 2022

JZL Capital

Quantitative Researcher

Shenzhen, China

Jun. 2021 - Jun. 2022

Harvest Fund

Quantitative Research Intern

Beijing, China

Oct. 2020 - May 2021

Selected Honors and Awards

Gold Medal, ACM-ICPC Asia Regional Contest

2022

7th Place in China, Global Management Challenge

2021

Beijing Outstanding Student

2021

Pacemaker to Merit Student

2018, 2019, 2020, 2021

National Scholarship

2019, 2020

Second Prize, Chinese Mathematics Competitions (CMC)

2018

Second Prize, Chinese Mathematical Olympiad in Shandong Province (CMOP)

2015

Selected Publications

* Equal contribution.

MemDecoder: Enhancing Test-Time Compute for LLM Agents via Reinforced Memory Decoding

Haoran Yin*, Chenyu Zhou*, Wei Zhu, and Yuhua Jin.

The International Conference on Machine Learning (ICML), 2026

StepORLM: A Self-Evolving Framework With Generative Process Supervision For Operations Research Language Models

Chenyu Zhou, Tianyi Xu, Jianghao Lin, and Dongdong Ge.

The International Conference on Learning Representations (ICLR), 2026

Decentralization Funded by Centralization: Understanding Crypto Joint-Investment Network

Junyu Zhang, Chenyu Zhou, and Wei Cai.

The ACM Web Science Conference (WebSci), 2025

Decentralized Web3 Non-Fungible Token Community for Societal Prosperity? A Social Capital Perspective

Hongzhou Chen, Chenyu Zhou, Abdulmotaleb El Saddik, and Wei Cai.

Proceedings of the ACM on Human-Computer Interaction (CSCW), 2025

ARTEMIS: Detecting Airdrop Hunters in NFT Markets with a Graph Learning System

Chenyu Zhou, Hongzhou Chen, Hao Wu, Junyu Zhang, and Wei Cai.

The ACM Web Conference (WWW), Oral, 2024

Harnessing Web3 on Carbon Offset Market for Sustainability: Framework and A Case Study

Chenyu Zhou, Hongzhou Chen, Shiman Wang, Xinyao Sun, Abdulmotaleb El Saddik, and Wei Cai.

IEEE Wireless Communications, 2023

Preprints and Working Papers

OR-Space: A Full-Lifecycle Workspace Benchmark for Industrial Optimization Agents

Chenyu Zhou*, Xinyun Lu*, Jianguo Zhao*, Jianghao Lin, Dongdong Ge, and Yinyu Ye.

arXiv preprint arXiv:2605.28158, 2026

Skills on the Fly: Test-Time Adaptive Skill Synthesis for LLM Agents

Jingxing Wang, Chenyu Zhou, Zhihui Fu, Jun Wang, Weiwen Liu, Weinan Zhang, and Jianghao Lin.

arXiv preprint arXiv:2605.16986, 2026

Externalization in LLM Agents: A Unified Review of Memory, Skills, Protocols and Harness Engineering

Chenyu Zhou, Huacan Chai*, Wenteng Chen*, Zihan Guo*, Rong Shan*, Yuanyi Song*, Tianyi Xu*, Yingxuan Yang*, Aofan Yu*, Weiming Zhang*, Congming Zheng*, Jiachen Zhu*, Zeyu Zheng, Zhuosheng Zhang, Xingyu Lou, Changwang Zhang, Zhihui Fu, Jun Wang, Weiwen Liu, Jianghao Lin, and Weinan Zhang.

arXiv preprint arXiv:2604.08224, 2026

OSDN: Improving Delta Rule with Provable Online Preconditioning in Linear Attention

Chenyu Zhou*, Hongpei Li*, Yuerou Liu, Jianghao Lin, Dongdong Ge, and Yinyu Ye.

arXiv preprint arXiv:2605.13473, 2026

From Soliloquy to Agora: Memory-Enhanced LLM Agents with Decentralized Debate for Optimization Modeling

Jianghao Lin*, Zi Ling*, Chenyu Zhou, Tianyi Xu, Ruoqing Jiang, Zizhuo Wang, and Dongdong Ge.

Submitted to Operations Research, 2026

Auto-Formulating Dynamic Programming Problems with Large Language Models

Chenyu Zhou*, Jingyuan Yang*, Linwei Xin, Yitian Chen, Ziyang He, and Dongdong Ge.

Manufacturing & Service Operations Management (M&SOM), Major Revision

Contrastive State-Narrative Alignment for Interpretable Crypto Market Understanding

Junyu Zhang*, Chenyu Zhou*, Shuangyi Chen, Hongzhou Chen, and Yuhua Jin.

Working Paper

SIGMA: Semantic-Informed Grounded Multimodal Alignment for Image Restoration

Haoran Yin*, Chenyu Zhou*, and Yuhua Jin.

Working Paper