

Yun Yao Zhang

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Profile

I am a PhD student at Huazhong University of Science and Technology, affiliated with the IMCC Lab at HUST. My research focuses on computational social science, neuro-symbolic reasoning, and social network analysis.

Education

Huazhong University of Science and Technology PhD Student, Intelligent Media Computing and Cybersecurity Laboratory • Supervisors: Junqing Yu and Zikai Song.	2024–Present
Huazhong University of Science and Technology B.Eng., School of Cyber Science and Engineering • Received bachelor's degree in June 2024. Supervisor: Bin Yuan.	2020–2024

Research Interests

Computational Social Science; Neuro-Symbolic Reasoning; Social Network Analysis.

First-Author and Equal-Contribution Publications

Semantic-Aware Logical Reasoning via a Semiotic Framework

Yun Yao Zhang, Xinglang Zhang, Junxi Sheng, Wenbing Li, Junqing Yu, Yi-Ping Phoebe Chen, Wei Yang, and Zikai Song.
ACL 2026 Main Conference, Oral. [arXiv:2509.24765](#)

Logical Phase Transitions: Understanding Collapse in LLM Logical Reasoning

Xinglang Zhang*, Yun Yao Zhang*, ZeLiang Chen, Junqing Yu, Wei Yang, and Zikai Song.
ACL 2026 Main Conference. [arXiv:2601.02902](#)

GA-S³: Comprehensive Social Network Simulation with Group Agents

Yun Yao Zhang, Zikai Song, Hang Zhou, Wenfeng Ren, Yi-Ping Phoebe Chen, Junqing Yu, and Wei Yang.
Findings of ACL 2025. [ACL Anthology](#)

Coupling Macro Dynamics and Micro States for Long-Horizon Social Simulation

Yun Yao Zhang, Yihao Ai, Zuocheng Ying, Qirui Mi, Junqing Yu, Wei Yang, and Zikai Song.
arXiv preprint, 2026. [arXiv:2604.05516](#)

IntervenSim: Intervention-Aware Social Network Simulation for Opinion Dynamics

Yun Yao Zhang, Zuocheng Ying, Xinglang Zhang, Junqing Yu, Peng Fang, Xu Chen, Wei Yang, and Zikai Song.
arXiv preprint, 2026. [arXiv:2604.06600](#)

Seeing Further and Wider: Joint Spatio-Temporal Enlargement for Micro-Video Popularity Prediction

Dali Wang*, Yun Yao Zhang*, Junqing Yu, Yi-Ping Phoebe Chen, Chen Xu, and Zikai Song.
arXiv preprint, 2026. [arXiv:2604.20311](#)

* Equal contribution.

Honors and Awards

First Place , ACM Social Media Prediction Challenge 2025 (Video Track), international ranking	2025
National First Prize , The 17th Challenge Cup National Extracurricular Academic Science and Technology Works Competition for College Students	2021

Academic Service

Reviewer, Association for Computational Linguistics (ACL); EMNLP	2026
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