Jingzhe Liu

Contact Information

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Research Interests

- Agentic Harness and Self-improving
- Large Language Personalization
- Generative Recommendation System
- Data-Centric AI, Data Science at Scale

Education

Michigan State University, USA 08/2023 – Present

- Ph.D. Student, Computer Science and Engineering
- Advisor: Dr. Jiliang Tang

Shanghai Jiao Tong University, China 09/2019 – 08/2023

- Bachelor of Engineering, Electronic and Computer Engineering

Professional Experience

Data Science and Engineering Lab, Michigan State University 08/2023 – Present
Research Assistant, Department of Computer Science and Engineering

- Topic: Data-Centric Artificial Intelligence
- Mentor: Dr. Jiliang Tang

User Modeling and Personalization Team, Snapchat 05/2026 – 09/2026
Research Intern

- Topic: Agentic Self-evolving
- Mentor: Mingxuan Ju

User Modeling and Personalization Team, Snapchat 05/2025 – 09/2025
Research Intern

- Topic: Generative Recommedation
- Mentor: Mingxuan Ju

Recommendation System and AI Foundation Team, Meta 09/2024 – 12/2024
Research Collaborator

- Topic: Dynamic Network Learning
- Mentor: Yan Xie

Selected Publications

- "Forging More Tasks into Better Harnesses: Agentic Harness Evolution via Successive Scale Racing"
  Jingzhe Liu, Jiliang Tang, Tong Zhao, Neil Shah, Mingxuan Ju.
  In submission, 2026.
- "Beyond Fixed Depths and Widths: Optimizing Textual Decoding Tries in LLM-based Generative Recommendation"
  Jingzhe Liu, Hanbing Wang, Jiliang Tang, Liam Collins, Tong Zhao, Neil Shah, Mingxuan Ju.
  ACM Conference on Recommender Systems (**RecSys**), 2026.
- "Higher-order Structure Boosts Link Prediction on Temporal Graphs"
  Jingzhe Liu, Zhigang Hua, Yan Xie, Bingheng Li, Harry Shomer, Yu Song, Kaveh Hassani, Jiliang Tang.
  SIAM International Conference on Data Mining (**SDM**), 2026.
- "Understanding Generative Recommendation with Semantic IDs from a Model-scaling View"
  Jingzhe Liu, Liam Collins, Jiliang Tang, Neil Shah, Tong Zhao, Mingxuan Ju.
  ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2026.
- "Towards Neural Scaling Laws on Graphs"
  Jingzhe Liu, Haitao Mao, Zhikai Chen, Tong Zhao, Neil Shah, Jiliang Tang.
  Learning on Graphs Conference (**LOG**), 2024.
- "Text-space Graph Foundation Models: Comprehensive Benchmarks and New Insights"
  Zhikai Chen, Haitao Mao, **Jingzhe Liu**, Yu Song, Bingheng Li, Wei Jin, Bahare Fatemi, Anton Tsitsulin, Bryan Perozzi, Hui Liu, Jiliang Tang.
  Published on Dataset and Benchmark Track at Neural Information Processing Systems (**NeurIPS-D&B Track**), 2024.
- "A Pure Transformer Pretraining Framework on Text-attributed Graphs"
  Yu Song, Haitao Mao, Jiachen Xiao, **Jingzhe Liu**, Zhikai Chen, Wei Jin, Carl Yang, Jiliang Tang, Hui Liu.
  Learning on Graphs Conference 2024(**LOG**), 2024.
- "Do Neural Scaling Laws Exist on Graph Self-Supervised Learning?"
  Qian Ma, Haitao Mao, **Jingzhe Liu**, Zhehua Zhang, Chunlin Feng, Yu Song, Yihan Shao, Yao Ma.
  Learning on Graphs Conference 2024(**LOG**), 2024.

Honors and Awards

- SDM Doctor Student Travel Award 2025
- Outstanding Graduate in Shanghai Jiao Tong University 2023
- Silver Awards in Capstone Design of Shanghai Jiao Tong University 2023
- Yu Liming Scholarship 2021
- Jiong Wu & Jie Sun Sunshine Scholarship 2020