
Yang Xiao

• yax3417@utulsa.edu • github.com/NKUShaw • [Google Scholar](#) • [Personal Page](#)

Location: Tulsa, Oklahoma, United States of America.

Education

University of Tulsa

Doctor of Philosophy in Computer Science.

Areas of Interest: Trustworthy AI, Efficient AI, AI for Science.

Tulsa, Oklahoma, USA

Aug. 2024 - May. 2029

Nankai University

Bachelor of Science in Applied Psychology.

Tianjin, China

Sept. 2020 - July. 2024

Selected Publications

- Optimal Transport for Brain-Image Alignment: Unveiling Redundancy and Synergy in Neural Information Processing.

Yang Xiao, Wang Lu, Jie Ji, Ruimeng Ye, Gen Li, Xiaolong Ma, Bo Hui. *ICCV* 2025.

[\[Paper\]](#)

- Efficient Knowledge Graph Unlearning with Zeroth-order Information

Yang Xiao, Ruimeng Ye, Bohan Liu, Xiaolong Ma, Bo Hui. *CIKM* 2025.

[\[Paper\]](#)

- The Right to be Forgotten in Pruning: Unveil Machine Unlearning on Sparse Models.

Yang Xiao, Gen Li, Jie Ji, Ruimeng Ye, Xiaolong Ma, Bo Hui. *RegML@NeurIPS* 2025.

[\[Paper\]](#)

- Knowledge Graph Unlearning with Schema.

Yang Xiao, Ruimeng Ye, Bo Hui. *LoG* 2024 and *COLING* 2025, Short Paper.

[\[Paper\]](#)

- Advancing Certified Robustness of Explanation via Gradient Quantization.

Yang Xiao, Zijie Zhang, Yuchen Fang, Da Yan, Yang Zhou, Wei-Shinn Ku, Bo Hui. *CIKM* 2024.

[\[Paper\]](#)

Experience

Mayo Clinic, Department of AI&I

Rochester, MN

Intern

June. 2025 - August. 2025

- Project: LLM Fine-tuning on real-world medical data.

Advisor: Professor [Nansu Zong](#)

University of Tulsa

Tulsa, OK

Research Assistant

August. 2024 - Present

- Project 1: Trustworthy Machine Learning
- Project 2: Efficient Machine Learning

Advisor: Professor [Bo Hui](#)

Full Publications

- Optimal Transport for Brain-Image Alignment: Unveiling Redundancy and Synergy in Neural Information Processing.
Yang Xiao, Wang Lu, Jie Ji, Ruimeng Ye, Gen Li, Xiaolong Ma, Bo Hui. *ICCV* 2025. [\[Paper\]](#)
- Efficient Knowledge Graph Unlearning with Zeroth-order Information
Yang Xiao, Ruimeng Ye, Bohan Liu, Xiaolong Ma, Bo Hui. *CIKM* 2025. [\[Paper\]](#)
- Facilitating Patient Eligibility Matching for Recruitment with a RAG-LLM Framework
Xiaodi Li, **Yang Xiao**, Munhwan Lee, Maria Vassilaki, Nansu Zong. *CTAD* 2025.
- Advancing Certified Robustness of Explanation via Gradient Quantization.
Yang Xiao, Zijie Zhang, Yuchen Fang, Da Yan, Yang Zhou, Wei-Shinn Ku, Bo Hui. *CIKM* 2024. [\[Paper\]](#)
- The Right to be Forgotten in Pruning: Unveil Machine Unlearning on Sparse Models.
Yang Xiao, Gen Li, Jie Ji, Ruimeng Ye, Xiaolong Ma, Bo Hui. *RegML@NeurIPS* 2025. [\[Paper\]](#)
- Knowledge Graph Unlearning with Schema.
Yang Xiao, Ruimeng Ye, Bo Hui. *LoG* 2024 and *COLING* 2025, Short Paper. [\[Paper\]](#)
- Sculpting Memory: Multi-Concept Forgetting in Diffusion Models via Dynamic Mask and Concept-Aware Optimization.
Gen Li, **Yang Xiao**, Jie Ji, Kaiyuan Deng, Bo Hui, Linke Guo, Xiaolong Ma. *ICCV* 2025. [\[Paper\]](#)
- DBA-DFL: Towards Distributed Backdoor Attacks with Network Detection in Decentralized Federated Learning.
Bohan Liu, **Yang Xiao**, Ruimeng Ye, Zinan Ling, Xiaolong Ma, Bo Hui. *ECAI* 2025. [\[Paper\]](#)
- Weak-to-Strong Generalization with Failure Trajectories: A Tree-based Approach to Elicit Optimal Policy in Strong Models.
Ruumeng Ye, Zihan Wang, **Yang Xiao**, Zinan Ling, Manling Li, Bo Hui. *FoRLM@NeurIPS* 2025. [\[Paper\]](#)
- A Pilot Study of Weak-to-Strong Generalization in Safety, Toxicity, and Legal Reasoning.
Ruumeng Ye, **Yang Xiao**, Bo Hui. *Bi-Align@ICLR* 2025. [\[Paper\]](#)
- BMT-BENCH: A benchmark sports dataset for video generation.
Ziang Shi, **Yang Xiao**, Da Yan, Min-Te Sun, Wei-Shinn Ku, Bo Hui. *ICIP* 2024. [\[Paper\]](#)

Pre-prints

- LightCache: Memory-Efficient, Training-Free Acceleration for Video Generation.
Yang Xiao, Gen Li, Kaiyuan Deng, Yushu Wu, Zheng Zhan, Yanzhi Wang, Xiaolong Ma, Bo Hui. [\[Paper\]](#)
- Post-hoc and manifold explanations analysis of facial expression data based on deep learning.
Yang Xiao *Undergraduate Thesis*. [\[Paper\]](#)
- A Survey of Lottery Ticket Hypothesis.
Bohan Liu, Zijie Zhang, Peixiong He, Zhensen Wang, **Yang Xiao**, Ruimeng Ye, Yang Zhou, Wei-Shinn Ku, Bo Hui. [\[Paper\]](#)

Service

Conference Reviewer

- CPAL 2026, LoG 2024
- NeurIPS workshop 2024, 2025