Yang Xiao

 \bullet yax3417@utulsa.edu \bullet github.com/NKUShaw \bullet Google Scholar \bullet 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.

Nankai University

Bachelor of Science in Applied Psychology.

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]

- 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]
- 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. *EAAI* 2025, *ICML Workshop* 2025, Oral.

Experience

Intern in Department of AI&I at Mayo Clinic	Advisor: Professor Nansu Zong	
• LLM for patients EHRs prediction	Present	
• Multi-agents System for Drug Prediction	Present	
• Multi-agents System for Multi-modalities Medical Dataset	Present	
Research Assistant at University of Tulsa	Advisor: Professor Bo Hui	
• Efficient Machine Learning, Machine Unlearning, AI for Science	Present	
• Knowledge Graph (LoG 2024, COLING 2025)	May. 2024 - August. 2024	
• Explainability of AI (CIKM 2024)	September. 2023 - January. 2024	
Undergraduate Student at Nankai University		

Tulsa, Oklahoma, USA Aug. 2024 - May. 2029

Tianjin, China Sept. 2020 - July. 2024

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• Facial Expression (Undergraduate Thesis)	September. 2023 - J	uly. 2024	
• A survey of AI for Science (Term Paper)	March. 2023 - August. 2023		
• Medical Imaging in Dental Medal Artifact Reducing	May. 2022 - January. 2023		
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. ICC	CV 2025.	[Paper]	
• Advancing Certified Robustness of Explanation via Gradient Quantization.			
Yang Xiao, Zijie Zhang, Yuchen Fang, Da Yan, Yang Zhou, Wei-Shinn Ku, Bo	o Hui. <i>CIKM</i> 2024.	[Paper]	
• Knowledge Graph Unlearning with Schema.			
Yang Xiao, Ruimeng Ye, Bo Hui. LoG 2024 and COLING 2025 Short Pape	r.	[Paper]	
• Sculpting Memory: Multi-Concept Forgetting in Diffusion Models via Dynamic Mask and Concept-Aware Op- timization.			
Gen Li, Yang Xiao , Jie Ji, Kaiyuan Deng, Bo Hui, Linke Guo, Xiaolong Ma.	<i>ICCV</i> 2025.	[Paper]	
• DBA-DFL: Towards Distributed Backdoor Attacks with Network Detection in Decentralized Federated Lear- ning.			
Bohan Liu, Yang Xiao , Ruimeng Ye, Zinan Ling, Xiaolong Ma, Bo Hui. <i>EA</i> 2025, Oral .	4AI 2025 and $ICML$	Workshop [Paper]	
• A Pilot Study of Weak-to-Strong Generalization in Safety, Toxicity, and Legal	Reasoning.		
Ruimeng Ye, Yang Xiao , Bo Hui. <i>ICLR</i> 2025 Bi-Align Workshop.		[Paper]	
• BMT-BENCH: A benchmark sports dataset for video generation.			
Ziang Shi, Yang Xiao , Da Yan, Min-Te Sun, Wei-Shinn Ku, Bo Hui. <i>ICIP</i> 20	24.	[Paper]	
Pre-prints			

- Post-hoc and manifold explanations analysis of facial expression data based on deep learning.
 Yang Xiao Undergraduate Thesis.
- 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

- NeurIPS workshop 2025
- CVPR 2024, LoG 2024