

Xiangchi Yuan

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RESEARCH INTERESTS	Large Foundation Model, LLM-based Agent, Trustworthy AI	
EDUCATION	Georgia Institute of Technology , Atlanta, GA Ph.D. in Computer Science Advisor: Professor Wenke Lee	August 2024 -
	Brandeis University , Waltham, MA M.S. in Computer Science Brandeis University Merit Scholarship Mentor: Mr. Chunhui Zhang , Professor Chuxu Zhang	May 2024
	University of Glasgow & UESTC , Glasgow, UK & Chengdu, CN B.Eng. in Electronic and Information Engineering	June 2022
ONGOING PROJECTS	Video Sanity Checker A training-free pipeline automatically detects and reduces such hallucinations for high-quality captions. It surpasses the GPT4-o 47.5 % of the time.	[PDF]
PAPERS	LaCache: Ladder-Shaped KV Caching for Efficient Long-Range Generation of Large Language Models [PDF] [Code] <i>Under review</i> Keeping "ladder-shape" KV cache and evicting others can bring LLM efficiency and performance, especially for long-context-aware reasoning.	
	Superficial Self-Improved Reasoners Benefit from Model Merging <i>arXiv</i> We identify Superficial Self-Improved Reasoners phenomenon during LLM self-improvement and mitigate it via iterative model merging Xiangchi Yuan , Chunhui Zhang, Zheyuan Liu, Dachuan Shi, Soroush Vosoughi, Wenke Lee	[PDF]
	LongMamba: Enhancing Mamba's Long-Context Capabilities via Training-Free Receptive Field Enlargement <i>International Conference on Learning Representations (ICLR)</i> , 2025 Zhifan Ye, Kejing Xia, Yonggan Fu, Xin Dong, Jihoon Hong, Xiangchi Yuan , Shizhe Diao, Jan Kautz, Pavlo Molchanov, Yingyan Celine Lin	[PDF] [Code]
	AmoebaLLM: Constructing Any-Shape Large Language Models for Efficient and Instant Deployment <i>Neural Information Processing Systems (NeurIPS)</i> , 2024 Yonggan Fu, Zhongzhi Yu, Junwei Li, Jiayi Qian, Yongan Zhang, Xiangchi Yuan , Dachuan Shi, Roman Yakunin, Yingyan Celine Lin	[PDF] [Code]
	Graph Cross Supervised Learning via Generalized Knowledge <i>ACM International Conference on Knowledge Discovery and Data Mining (KDD)</i> , 2024. Xiangchi Yuan , Yijun Tian, Chunhui Zhang, Yanfang Ye, Nitesh V. Chawla, and Chuxu Zhang	[PDF] [Code]
	Mitigating Emergent Robustness Degradation while Scaling Graph Learning <i>International Conference on Learning Representations (ICLR)</i> , 2024	[PDF] [Code]

Xiangchi Yuan*, Chunhui Zhang*, Yijun Tian, Yanfang Ye and Chuxu Zhang

Navigating Graph Robust Learning against All-Intensity Attacks [\[PDF\]](#)[\[Code\]](#)
International Conference on Machine Learning - New Frontiers in Adversarial Machine Learning Workshop (ICML Workshop), 2023

Xiangchi Yuan, Chunhui Zhang, Yijun Tian, and Chuxu Zhang

An End-to-End 12-Leading Electrocardiogram Diagnosis System Based on Deformable Convolutional Neural Network With Good Antinoise Ability [\[PDF\]](#)[\[Code\]](#)
IEEE Transactions on Instrumentation and Measurement (IEEE TIM), 2021
Lang Qin, Yuntao Xie, Xinwen Liu, **Xiangchi Yuan**, and Huan Wang

HONORS AND AWARDS

Brandeis University Merit Scholarship (\$ 40,000)	2022 & 2023
Brandeis University Conference Award	2023
UESTC Outstanding Student Scholarship	2020 & 2021

WORKING EXPERIENCE

VeriSilicon Microelectronics, Chengdu, CN
Software Development Engineer Intern February-May 2022

- Designed HDR adaptive curve fitting algorithm to meet hardware requirements
- Implemented CCM gamut mappings which suits hardware with fixed-point calculation
- This SoC IP was authorized to **Google Pixel**

TEACHING EXPERIENCE

Georgia Institute of Technology, Atlanta, GA
Teaching Assistant, CS6476 Computer Vision Spring 2025

Brandeis University, Waltham, MA
Head Teaching Assistant, MATH-125A Mathematics for Machine Learning Fall 2023

INVITED TALKS

Brandeis University Research Retreat	July 2023 & 2024
Georgia Tech OMSCS Brown Bag Talks	March 2025

SERVICE

Program Committee/Conference Reviewer
WWW 2023, ICML 2023, ICLR 2024, ICASSP 2024, PAKDD 2024, COLING 2024, KDD 2024, NeurIPS 2024, ICLR 2025, ICML 2025