

# Xiangchi Yuan

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## CONTACT

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## RESEARCH INTERESTS

Large Foundation Model, Trustworthy ML, Data-centric AI

## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA

Ph.D. in Computer Science

August 2024 -

Advisor: [Professor Wenke Lee](#)

**Brandeis University**, Waltham, MA

M.S. in Computer Science

May 2024

Brandeis University Merit Scholarship

Mentor: [Mr. Chunhui Zhang](#), [Professor Chuxu Zhang](#)

**University of Glasgow & UESTC**, Glasgow, UK & Chengdu, China

B.Eng. in Electronic and Information Engineering

June 2022

## ONGOING PROJECTS

Model Merge Can Improve Reasoning Data Synthesize [\[Slides\]](#)[\[Code\]](#)  
We find model merge for synthesizing reasoning data can iteratively improve model reasoning performance after iterative fine-tunings.

## PAPERS

LaCache: Ladder-Shaped KV Caching for Efficient Long-Range Generation of Large Language Models [\[PDF\]](#)[\[Code\]](#)  
*Under review* | Keeping "ladder-shape" KV cache and evicting others can bring LLM efficiency and performance.

LongMamba: Enhancing Mamba's Long-Context Capabilities via Training-Free Receptive Field Enlargement [\[PDF\]](#)[\[Code\]](#)  
*Under review* | Identifying "global channel" and filtering corresponding tokens enhance Mamba's long context ability.

AmoebaLLM: Constructing Any-Shape Large Language Models for Efficient and Instant Deployment [\[PDF\]](#)  
*Neural Information Processing Systems (NeurIPS)*, 2024  
Yonggan Fu, Zhongzhi Yu, Junwei Li, Jiayi Qian, Yonggan Zhang, **Xiangchi Yuan**, Dachuan Shi, Roman Yakunin, Yingyan Celine Lin

Graph Cross Supervised Learning via Generalized Knowledge [\[PDF\]](#)[\[Code\]](#)  
*ACM International Conference on Knowledge Discovery and Data Mining (KDD)*, 2024.  
**Xiangchi Yuan**, Yijun Tian, Chunhui Zhang, Yanfang Ye, Nitesh V. Chawla, and Chuxu Zhang.

Mitigating Emergent Robustness Degradation while Scaling Graph Learning [\[PDF\]](#)[\[Code\]](#)  
*International Conference on Learning Representations (ICLR)*, 2024  
**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, China  
*Software Development Engineer Intern* February-May 2022

- Designed HDR adaptive curve fitting algorithm: meeting hardware requirements and keeping high precision
- Implemented CCM gamut mapping which suits hardware with fixed-point calculation for different Gamut settings
- This SoC IP was used in **Google Pixel**

## TEACHING EXPERIENCE

**Brandeis University**, Waltham, MA  
 Head Teaching Assistant, *MATH-125A Mathematics for Machine Learning* Spring 2024

## SERVICE

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