

Xiangchi Yuan

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EDUCATION

Brandeis University

M.S. in Computer Science

Waltham, MA, USA

Aug. 2022 – May 2024

University of Electronic Science and Technology of China (UESTC)

B.Eng. in Electronic and Information Engineering

Chengdu, Sichuan, CN

Aug. 2018 – May 2022

RESEARCH INTERESTS

Graph Mining/Data Mining, Data-efficient AI, Trustworthy AI, Natural Language Processing.

PUBLICATIONS

[3] **Xiangchi Yuan**, Chunhui Zhang, Yijun Tian, and Chuxu Zhang. Exploring Anti-degraded Graph Robust Learning Against Adversarial Attacks. In Thirty-seventh Conference on Neural Information Processing Systems (*NeurIPS 2023 Under review*).

[2] **Xiangchi Yuan**, Chunhui Zhang, Yijun Tian, and Chuxu Zhang. Navigating Graph Robust Learning against All-Intensity Attacks. In Fortieth International Conference on Machine Learning (ICML) 2023-New Frontiers in Adversarial Machine Learning Workshop (*ICML 2023 AdvML-Frontiers Workshop*).

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

RESEARCH EXPERIENCE

Research Assistant

The Pennsylvania State University

Jul. 2023 – Present

University Park, PA, USA

- Applied contrastive learning and data augmentation to Fine-tuning Bart for multi-attributes summarization.
- Designed Automatic Prompt Engineer for conditional context summarization by LLMs.

Research Assistant

Brandeis University

Sep. 2022 – Jun. 2023

Waltham, MA, USA

- Proposed Denoise Masked Graph Auto-encoder to remove malicious edges of the attacked graph.
- Revealed the connection between differential privacy(DP) and GNN robustness, and applied the idea of differential privacy to GNN to improve the robustness.
- Introduced the mixture-of-experts model to GNN layer to select the better DP experts against attacks.
- Provided a theoretical robust guarantee for designed Differential Privacy Mixture-of-Experts module.

Undergraduate Research Assistant

University of Electronic Science and Technology of China

Sep. 2020 – Feb. 2021

Chengdu, Sichuan, CN

- Designed Deformable Convolutional Neural Network With Good Antinoise Ability for ECG classification
- Classified different ECG signals for diagnosis with employing Tri-net combined Tri-training

WORK EXPERIENCE

Software Development Engineer Intern

VeriSilicon Microelectronics, GPU Arch Group

Apr. 2022 – Jul. 2022

Chengdu, Sichuan, CN

- 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**.

HONORS

UESTC University-wide Outstanding Student Scholarship

Nov. 2020, Nov. 2021

SERVICE

The Web Conference (WWW) 2023

Sub-reviewer

The International Conference on Machine Learning (ICML) 2023

Sub-reviewer