Xiang Li

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EDUCATION

Fordham University *Aug. 2023 - Present*
Ph.D. in Computer Science

Huazhong University of Science and Technology *Sep. 2019 - Jun. 2023*
Bachelor of Engineering in Automation (**GPA**: 3.91/4.0)

PUBLICATIONS

- Nashrah Haque, **Xiang Li**, Zhehui Chen, Yanzhao Wu, Lei Yu, Arun Iyengar, Wenqi We. *"Boosting Imperceptibility of Stable Diffusion-based Adversarial Examples Generation with Momentum"*, IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (IEEE TPS), 2024.
- Xueqing Zhang, Junkai Zhang, Ka-Ho Chow, Juntao Chen, Ying Mao, Mohamed Rahouti, **Xiang Li**, Yuchen Liu, Wenqi Wei. *"Visualizing the Shadows: Unveiling Data Poisoning Behaviors in Federated Learning"*, IEEE International Conference on Distributed Computing Systems (ICDCS), 2024.
- Xirong Cao, **Xiang Li**, Divyesh Jadav, Yanzhao Wu, Zhehui Chen, Chen Zeng, Wenqi Wei. *"Invisible Watermarking for Audio Generation Diffusion Models"*, IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (IEEE TPS), 2023.
- Shaolin Ran, **Xiang Li**, Beizhen Zhao, Yinuo Jiang, Xiaoyun Yang and Cheng Cheng.*"Label Correlation Embedding Guided Network for Multi-label ECG Arrhythmia Diagnosis"*, Knowledge-Based Systems, 2023.

RESEARCH EXPERIENCE

Fordham-IBM Research Intern *May 2024 - Aug. 2024*
Fordham University & IBM, Advisor: Dr. Pin-Yu Chen, Prof. Wenqi Wei *New York, USA*
- Trained/Finetuned state-of-the-art detection models/audio foundation models for audio deepfake detection tasks.
- Collected an AI-synthesized audio dataset using state-of-the-art TTS models and conducted a systematic evaluation of audio deepfake detection models.
- Proposed to utilize few-shot fine-tuning to effectively improve model generalization.

Graduate Assistant *Aug. 2023 - Present*
Fordham University, Advisor: Prof. Wenqi Wei *New York, USA*
- Implemented Machine Unlearning benchmark toolkit and conducted systematic evaluations of existing unlearning algorithms.
- Conducted research on stable diffusion-based adversarial examples generation, improving the attack success rate by 35% over the state-of-the-art baseline.
- Investigated watermarking techniques for the audio diffusion models.

Undergraduate Research Assistant *Oct. 2022 - May. 2023*
Huazhong University of Science and Technology, Adivosor: Prof.Cheng Cheng *Wuhan, China*
- Researched traditional and state-of-the-art methods for ECG arrhythmia diagnosis.
- Proposed to use label correlation embedding to guide ECG features extraction.
- Proposed to calculate cosine similarity between label semantic embeddings and the learned features to generate label-aware feature points for explainability.

AWARDS AND HONORS

- ICDCS Travel Grant 2024
- Fordham-IBM Research Grant 2024
- Outstanding Graduate, School of Artificial Intelligence and Automation, HUST 2023
- People Scholarship, Huazhong University of Science and Technology 2022

- Honorable Mention Award in Mathematical Contest In Modeling (MCM) 2022
- People Scholarship, Huazhong University of Science and Technology 2020
- Freshman Scholarship, Huazhong University of Science and Technology 2020

ACADEMIC SERVICES

Journal Reviewer

- IEEE Journal of Biomedical and Health Informatics (JBHI)
- IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)

Conference Reviewer

- COLING('25), ICLR('24,'25), AAAI('25), KDD('24), ECCV('24), NeurIPS('24)

TEACHING EXPERIENCE

- Teaching Assistant for CISC 5325: Database, Fall 2024

SKILLS

- **Programming**: Python(Pytorch,Tensorflow); C; Matlab.
- **Machine Learning/Data Analysis**: Deep Learning, including CNNs, RNNs, VAEs, GANs, Transformers; Machine learning including SVM, KNN, and Decision Trees.
- **Tools:** Git; Slurm; Latex.
- **Languages:** Mandarin(native); English(**TOEFL**: 107, **GRE**: 332); Italian (beginner).