

Jiaqi Xue

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Last update at Mar. 2024

EDUCATION

University of Central Florida
Ph.D. candidate in Computer Science

Orlando, FL
Jan. 2023 – Present

Chongqing University
B.S. in Computer Science

Chongqing, CHN
Sep. 2018 – Jun. 2022

RESEARCH AREA

- Adversarial Attacks and Trojan Attacks on Machine Learning [1, 3, 5, 7, 9, 12]
- Privacy-Preserving Machine Learning [12, 2, 4]
- Secure and Robust Machine Learning [1, 6, 8, 10]

WORKING EXPERIENCE

Samsung Research America
Research Intern, supervised by Dr. Xun Chen

Mountain View, CA
May. 2024 – Aug. 2024

Working on research projects on adversarial attacks against Large Language Models (LLM) and Retrieval Augmented Generation (RAG) [12].

University of Central Florida
Graduate Research Assistant, advised by Dr. Qian Lou

Orlando, FL
Jan. 2023 – Present

Working on research projects of private machine learning [2, 4, 12], adversarial machine learning [1, 3, 5, 7, 9, 10], defense against backdoor/trojan attacks on ML [1, 6, 8] and other AI related tasks [10].

Y-tech, Kuaishou Technology
Research Intern, supervised by Dr. Shenkun Xu

Beijing, CHN
Mar. 2022 – May. 2022

Design Recommendation Algorithms for smart shooting assistant, a function for Kwai APP.

HONORS AND AWARDS

NeurIPS Top Reviewer Award
NeurIPS Scholar Award

2024
2023

REVIEWER SERVICES

- Neural Information Processing Systems (NeurIPS)
- Artificial Intelligence and Statistics (AISTATS)
- International Conference on Learning Representations (ICLR)
- International Joint Conference on Artificial Intelligence (IJCAI)
- Computer Vision and Pattern Recognition (CVPR)
- Empirical Methods in Natural Language Processing (EMNLP)
- Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL)
- International Conference on Machine Learning (ICML)
- Transactions on Machine Learning Research (TMLR)
- International Conference on Computer Vision (ICCV)

- [12] **Jiaqi Xue**, Mengxin Zheng, Yebowen Hu, Fei Liu, Xun Chen and Qian Lou. BadRAG: Identifying Vulnerabilities in Retrieval Augmented Generation of Large Language Models. *Under Review*
- [11] Yancheng Zhang, **Jiaqi Xue**, Mengxin Zheng, Mimi Xie, Mingzhe Zhang, Lei Jiang and Qian Lou. CipherPrune: Efficient and Scalable Private Transformer Inference. *The Thirteenth International Conference on Learning Representations, ICLR 2025*
- [10] Muhammad Husni Santriaji, **Jiaqi Xue**, Yancheng Zhang, Qian Lou and Yan Solihin. DataSeal: Ensuring the Verifiability of Private Computation on Encrypted Data. *The 45th IEEE Symposium on Security and Privacy, Oakland 2025*
- [9] **Jiaqi Xue**, Qian Lou and Mengxin Zheng. BadFair: Backdoored Fairness Attacks with Group-conditioned Triggers. *Findings of the Empirical Methods in Natural Language Processing, EMNLP 2024*
- [8] **Jiaqi Xue***, Mengxin Zheng*, Zihao Wang, Xun Chen, Qian Lou, Lei Jiang and Xiaofeng Wang. SSL-Cleanse: Trojan Detection and Mitigation in Self-Supervised Learning. *The 18th European Conference on Computer Vision, ECCV 2024*
- [7] Mengxin Zheng, **Jiaqi Xue**, Xun Chen, Yanshan Wang, Qian Lou and Lei Jiang. TrojFSP: Trojan Insertion in Few-shot Prompt Tuning. *2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics, NAACL 2024 (Oral)*
- [6] Qian Lou, **Jiaqi Xue***, Xin Liang*, Yancheng Zhang, Rui Xie and Mengxin Zheng. CR-UTP: Certified Robustness against Universal Text Perturbations on Large Language Models. *Findings of the Association for Computational Linguistics, ACL 2024*
- [5] **Jiaqi Xue**, Mengxin Zheng, Ting Hua, Yilin Shen, Yepeng Liu, Ladislau Boloni and Qian Lou. TrojLLM: A Black-box Trojan Prompt Attack on Large Language Models. *Thirty-seventh Conference on Neural Information Processing Systems, NeurIPS 2023*
- [4] Ardhi Wiratama Baskara Yudha, **Jiaqi Xue**, Qian Lou, Huiyang Zhou and Yan Solihin. BoostCom: Towards Efficient Universal Fully Homomorphic Encryption by Boosting the Word-wise Comparisons. *Proceedings of the 2024 International Conference on Parallel Architectures and Compilation Techniques, PACT 2024*
- [3] **Jiaqi Xue**, Mengxin Zheng, Yi Sheng, Lei Yang, Qian Lou and Lei Jiang. TrojFair: Trojan Fairness Attacks. *1st ACM Workshop on Large AI Systems and Models with Privacy and Safety Analysis, CCS 2024*
- [2] **Jiaqi Xue**, Yancheng Zhang, Yanshan Wang, Xueqiang Wang, Hao Zheng and Qian Lou. CryptoTrain: Fast Secure Training on Encrypted Dataset. *1st ACM Workshop on Large AI Systems and Models with Privacy and Safety Analysis, CCS 2024*
- [1] **Jiaqi Xue**, Lei Xu, Lin Chen, Weidong Shi, Kaidi Xu and Qian Lou. Audit and Improve Robustness of Private Neural Networks on Encrypted Data. *Under Review*