

Yue Cui

✉ yuecui8-c@my.cityu.edu.hk 🏠 ycui26.github.io

Education

City University of Hong Kong

Ph.D. in Computer Science (Supervisor: Dr. Man Hon Cheung)

Aug 2022 - Expected Aug 2026

Hong Kong SAR

- **Research Interests:** Network economics, Game theory, and Machine Unlearning

University of Tennessee, Knoxville

Research Assistant in Mosis Lab (Supervisor: Dr. Jian Liu)

Sept 2021 - May 2022

Knoxville, Tennessee

- **Research Interests:** Trustworthy Federated Learning

University of Electronic Science and Technology of China (UESTC)

B.Eng in Computer Science and Technology ("Internet+" Elite Class), Minor in Finance, GPA: 3.92/4.0

Sept 2017 - Jul 2021

Chengdu, Sichuan

Publications

1. Yue Cui, Ningning Ding, and Man Hon Cheung. "**Aol-aware Federated Unlearning for Streaming Data with Online Client Selection and Pricing.**" 2025 IEEE International Conference on Computer Communications (INFOCOM'25) (Acceptance Rate: 18.6%)
2. Ni Yang, Yue Cui, and Man Hon Cheung. "**Convergence Analysis and Contract Design for Adaptive Federated Learning.**" Submitted to Transactions in Mobile Computing (TMC)
3. Yue Cui and Man Hon Cheung. "**The Price of Forgetting: Incentive Mechanism Design for Machine Unlearning.**" Submitted to Transactions in Mobile Computing (TMC)
4. Ni Yang, Yue Cui, and Man Hon Cheung. "**Contract Design for Adaptive Federated Learning.**" 2024 IEEE Global Communications Conference (GLOBECOM'24)
5. Yue Cui and Man Hon Cheung. "**The Price of Forgetting: Data Redemption Mechanism Design for Machine Unlearning.**" 2024 IEEE International Conference on Communications (ICC'24)
6. Yue Cui, Syed Irfan Ali Meerza, Zhuohang Li, Luyang Liu, Jiaxin Zhang, and Jian Liu. "**RecUP-FL: Reconciling Utility and Privacy in Federated learning via User-configurable Privacy Defense.**" 2023 ACM Asia Conference on Computer and Communications Security (ASIA CCS'23) (Acceptance Rate: 17.1%)
7. Qinyun Chen, Chaohui Zheng, Yue Cui, Yan-Ru Lin, Steven J. Zinkle. "**A deep learning model for automatic analysis of cavities in irradiated materials.**" 2023 Computational Materials Science
8. Yue Cui, Zhuohang Li, Luyang Liu, Jiaxin Zhang, Jian Liu. "**Privacy-preserving speech-based depression diagnosis via federated learning.**" 2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC'22) (Student Paper Competition Finalist)

Honors & Scholarships

- **Student Travel Grant**, IEEE ICC, \$1000, 2024
- **Student Paper Competition Finalist**, IEEE EMBC, Only 1 in North America, 2022
- **Tennessee's Top 100 Fellowships**, \$10,000 per year, University of Tennessee, 2021
- **Third Prize of Sichuan Province**, Chinese Undergraduate Computer Design Contest, 2021
- **Second Prize of Sichuan Province**, National College Student E-commerce "Innovation, Creativity, and Entrepreneurship" Challenge Competition, 2021
- **The Outstanding Student of 2019**, School of Computer Science and Engineering, UESTC, 2019
- **Merit-based Outstanding Student Scholarship**, UESTC, 2018 - 2020

Activities

- **Teaching Assistant** of CS5222 Computer Network and Internets, CityU, 2023&2024 Fall
- **Teaching Assistant** of CS3402 Database Systems, CityU, 2023&2024 Spring
- **Teaching Assistant** of CS1302 Introduction to Programming, CityU, 2022 Fall
- **Supervision of Final Year Project (FYP)** Depression diagnosis via Federated Learning, UTK, 2021 Fall
- **Teaching Assistant** of Virtual Simulation of Unmanned Aerial Vehicle (UAV), UESTC, 2019 Spring