

LIU TANG

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🔗 lioutang.github.io

RESEARCH INTEREST

Privacy-Preserving Machine Learning ◦ Machine Unlearning ◦ Quantum Machine Learning

EDUCATION

University of Pittsburgh

Sep. 2024 -

Ph.D. in Information Science; Advised by Dr. James Joshi

University of Pittsburgh

Sep. 2022 - Apr. 2024

Master of Science in Information Science

Shanghai Jiao Tong University

Sep. 2018 - Jun. 2022

Bachelor of Engineering in Information Security

GRANTS AND PROJECTS

SecPriMU: Towards A Holistic Secure And Privacy-Preserving Machine Unlearning Framework

LERSAIS Lab

Role: Participant Principle Investigator: Dr. James Joshi

Jan. 2025 - Aug. 2025

- Funded by Cisco Research, under grant proposal ID: 95254923.

Quantum Secure and Privacy-Preserving Machine Learning in Hybrid Environments

LERSAIS Lab

Role: Participant Principle Investigator: Dr. James Joshi

Jan. 2026 -

- Funded by Cisco Research, under grant proposal ID: R_7o5ayArwT4Q73wY.

PUBLICATIONS

- [1] L. Tang, P. Krishnamurthy, and M. Abdelhakim, "Is machine learning the best option for network routing?" in *ICC*. IEEE, 2024, pp. 5425–5430.
- [2] L. Tang and J. Joshi, "Towards privacy-preserving and secure machine unlearning: Taxonomy, challenges and research directions," in *TPS-ISA*. IEEE, 2024, pp. 280–291.
- [3] L. Tang, J. Joshi, and A. Kundu, "Apollo: A posteriori label-only membership inference attack towards machine unlearning," *CoRR*, vol. abs/2506.09923, 2025.
- [4] P. He, L. Tang, M. A. Rahimian, and J. Joshi, "Conformal-dp: Differential privacy on riemannian manifolds via conformal transformation," *CoRR*, vol. abs/2504.20941, 2025.

ACADEMIA SERVICES

Reviewer for Conferences and Journals

- IEEE Transactions on Dependable and Secure Computing (TDSC)
- 2025 7th IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (TPS-ISA) (sub-reviewer)
- NeurIPS 2025 (sub-reviewer)
- 2024 IEEE 10th International Conference on Network Softwarization (NetSoft)

Conference Service

- Session Chair for 2025 7th IEEE International Conference on Cognitive Machine Intelligence (CogMI)
- Web Co-Chair for 2025 11th IEEE CIC/TPS/CogMI Co-Located Conferences

TEACHING EXPERIENCE

Teaching Assistant

- CS 0449, *Introduction to System Software*, Fall 2025, University of Pittsburgh
- IFSCI 0510, *Data Analysis*, Fall 2024, University of Pittsburgh

INTERNSHIP

Software Engineer Intern at Unity Technologies (Shanghai)

Unity Technologies (Shanghai)

Role: Software Engineer Intern Manager: Liming Zhang

Jan. 2022 - Aug. 2022