

Jiadong Lou

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EDUCATION

- Ph.D. candidate in Computer Science** Sept. 2023 - Present
University of Delaware, Newark, DE
Advisor: **Prof. Xu Yuan**
- M.S. in Computer Science** August 2018 - August 2023
University of Louisiana at Lafayette, Lafayette, LA
Advisor: **Prof. Xu Yuan**
- B.S. in Internet of Things** Sept. 2014 - May 2018
Harbin Institute of Technology, Harbin, China

RESEARCH INTERESTS

Cybersecurity, data privacy, machine learning, AI for science, wireless communications, and Cyber-physical system

AWARDS

- IEEE/IFIP DSN 2023, Distinguished Paper Award
- IEEE/IFIP DSN 2023, Best Paper Award
- IEEE CNS 2024, Best Paper Runner-up Award

PUBLICATIONS

First-authored Papers

1. **[Submitted to TGRS] Jiadong Lou**, Xu Yuan, and Bingqing Liu, "Hyperspectral retrievals of phytoplankton absorption and chlorophyll-*a* via VAE," submitted to *IEEE Transactions on Geoscience and Remote Sensing*, 2024.
2. **[IEEE S&P'25] Jiadong Lou**, Xu Yuan, Xingliang Yuan, Neil Zhenqiang Gong, and Nian-Feng Tzeng, "GRID: Protecting training graph from link stealing attacks on GNN models," accepted by *IEEE Symposium on Security and Privacy*, 2025.
3. **[IEEE CNS'24] Jiadong Lou**, and Xu Yuan, "Membership inference via self-comparison," accepted by *IEEE Conference on Communications and Network Security (CNS)*, 2024. **Best Paper Runner-up Award**
4. **[IEEE/IFIP DSN'23] Jiadong Lou**, Xu Yuan, and Ning Zhang, "Devils in Your Apps: Vulnerabilities and user privacy exposure in mobile notification systems," in Proc. of *IEEE/IFIP International Conference on Dependable Systems and Network*, 2023. **Best Paper Award and Distinguished Paper Award**
5. **[ACM AsiaCCS'23] Jiadong Lou**, Xu Yuan, Miao Pan, Hao Wang, and Nian-Feng Tzeng, "Data privacy examination against semi-supervised learning," in Proc. of *ACM ASIA Conference on Computer and Communications Security*, 2023.

6. [IEEE TMC] **Jiadong Lou**, Xu Yuan, Purushottam Sigdel, Xiaoqi Qin, Sastry Kompella, Nian-Feng Tzeng, “Age of information optimization in multi-channel based multi-hop wireless networks,” *IEEE Transactions on Mobile Computing*, 2022.
7. [USENIX Security’21] **Jiadong Lou**, Xu Yuan, Ning Zhang, “Messy States of Wiring: Vulnerabilities in emerging personal payment Systems,” in Proc. of *USENIX Security Symposium*, 2021.
8. [IEEE/ACM ToN] **Jiadong Lou**, Xu Yuan, Sastry Kompella, Nian-Feng Tzeng, “Boosting or hindering: AoI and throughput interrelation in routing-aware multi-hop wireless networks,” *IEEE/ACM Transactions on Networking*, 2021.
9. [IEEE INFOCOM’20] **Jiadong Lou**, Xu Yuan, Sastry Kompella, and Nian-Feng Tzeng. “AoI and throughput tradeoffs in routing-aware multi-hop wireless networks,” in Proc. of *IEEE International Conference on Computer Communication*, 2020.
10. [IEEE SECON’20] **Jiadong Lou**, Xu Yuan, Nian-Feng Tzeng, “Instant AoI optimization in IoT networks with packet combination,” in Proc. of *IEEE International Conference on Sensing, Communication, and Networking*, 2020.

Co-Authored Papers

13. [ACM CIKM’24] Fudong Lin, Xu Yuan, **Jiadong Lou**, and Nian-Feng Tzeng, “Towards robust vision transformer via masked adaptive ensemble,” accepted by *ACM International Conference on Information and Knowledge Management*, 2024.
14. [ACM ToSN] Jie Lian, Xu Yuan, **Jiadong Lou**, Li Chen, Hao Wang, Nian-Feng Tzeng, “Room-Scale location trace tracking via continuous acoustic waves,” *ACM Transactions on Sensor Networks*, 2024.
15. [ACM ToSN] Jie Lian, Changlai Du, **Jiadong Lou**, Li Chen, Xu Yuan, “EchoSensor: Fine-Grained ultrasonic sensing for smart home intrusion detection,” *ACM Transactions on Sensor Networks*, 2023.
16. [ACM CCS’21] Yihe Zhang, Xu Yuan, Jin Li, **Jiadong Lou**, Li Chen, and Nian-Feng Tzeng. “Reverse Attack: Black-box Attacks on Collaborative Recommendation,” in Proc. of *ACM SIGSAC Conference on Computer and Communications Security*, 2021.
17. [ACM Ubicomp/IMWUT’21] Jie Lian, **Jiadong Lou**, Li Chen, and Xu Yuan. “Echospot: Spotting your locations via acoustic sensing.” in Proc. of *ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, pp. 1-21, 2021.
18. [ESORICS’20] Yihe Zhang, **Jiadong Lou**, Li Chen, Xu Yuan, Jin Li, Tom Johnsten, and Nian-Feng Tzeng. “Towards poisoning the neural collaborative filtering-based recommender systems,” In Proc. of *European Symposium on Research in Computer Security*, 2020.

GRANTS WRITING EXPERIENCES

1. **National Science Foundation**, “CAREER: Holistic Framework for Constructing Dynamic Malicious Knowledge Bases in Social Networks,” Award Number: 2348452. Total Award Amount: \$500,000. My Role: Main Technical Contributor
2. **National Science Foundation**, “Collaborative Research: SaTC: CORE: Small: Critical Learning Periods Augmented Robust Federated Learning,” Award Number: 2315613. Total Award Amount: \$500,000. My Role: Main Technical Contributor
3. **National Science Foundation**, “Collaborative Research: CAIG: Empowering Artificial Intelligence to Reveal Phytoplankton Community Dynamics in Coastal Oceans,” Award Number: 2425812. Total Award Amount: \$849,636. My Role: Main Technical Contributor

TEACHING EXPERIENCES

Instructor

University of Louisiana at Lafayette

- Machine Learning: Applications and Practices, and Introduction to Meteorology June 2023 - August 2023
Louisiana State University, IBM
- TigerAI Bootcamp May 2024

Teaching Assistant

- University of Louisiana at Lafayette Jan. 2019 - May 2023
- Programming Languages
 - Principle of Operating System Theory
 - Computer Communication & Networks
 - Principles of Computer Architecture

ACADEMIC SERVICES

Journal Reviews	16
• IEEE Transaction on Mobile Computing	5
• IEEE Internet of Things Journal	3
• IEEE Communications Letters	1
• IEEE Transactions on Vehicular Technology	1
• IEEE Transactions on Network Science and Engineering	1
• IEEE Transactions on Dependable and Secure Computing	2
• Security and Communication Networks	2
• Computers & Security	1

TPC Member

IEEE International Conference on Mobility, Sensing and Networking (**MSN**), 2024

Student Volunteer

IEEE International Conference on Computer Communications (**IEEE INFOCOM**), 2022