Jiachun Li

CONTACT
INFORMATION

PhD Candidate
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Department of Computer Science & Engineering
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RESEARCH
INTERESTS

Internet of Things Security; Wireless Charging Security;
Space-air-ground Integrated Network;

EDUCATION
EXPERIENCE

Shanghai Jiao Tong University, Shanghai, China   Sep. 2020 to Jun. 2025

Ph.D., Computer Science & Engineering
- Adviser: Professor **Haojin Zhu** (IEEE Fellow)

Nanyang Technological University, Singapore, Singapore   Oct. 2023 to Oct. 2024

Ph.D., Computer Science & Engineering
- Adviser: Associate Professor **Jun Luo** (IEEE Fellow)

Huazhong University of Science and Technology, Wuhan, China   Sep. 2016 to Jun. 2020

B.S., Communication Engineering, June 2016
- GPA: 3.92/4 *(Ranking: 4/131)*

HONORS &
AWARDS

[1] **National Encouragement Scholarship**, Ministry of Education of PRC, 2017.

[2] **Merit Student**, Huazhong University of Science and Technology, 2017, 2018.

[3] **National Scholarship**, Ministry of Education of PRC, 2018.

[4] **Excellent Student Cadre**, Huazhong University of Science and Technology, 2018.

[5] **Excellent League Cadre**, Huazhong University of Science and Technology, 2018.

[6] **National Encouragement Scholarship**, Ministry of Education of PRC, 2019.

[7] **Pacemaker to Merit Student**, Huazhong University of Science and Technology, 2019.

[8] **Outstanding Graduates**, Huazhong University of Science and Technology, 2020.

[9] **First prize in East China Area**, in 4-th "Changfeng Cup" National College Contest, Chinese Institute of Electronics, 2021.

[10] **Merit Student**, Shanghai Jiao Tong University, 2021, 2022, 2023.

[11] **Excellent League Member**, Shanghai Jiao Tong University, 2021, 2022.

[12] **Huatai Securities Scholarship**, Shanghai Jiao Tong University, 2023.

[13] **Scholarship from China Scholarship Council**, China Scholarship Council, 2023.

PUBLICATIONS

[1] **[TIFS] Jiachun Li**, Yan Meng, Yuxia Zhan, Le Zhang and Haojin Zhu, "Dangers behind Charging VR Devices: Hidden Side Channel Attacks via Charging Cables," *IEEE Transactions on Information Forensics and Security (TIFS)*, 2024, (CCF A).

[2] **[INFOCOM'23] Jiachun Li**, Yan Meng, Le Zhang, Guoxing Chen, Yuan Tian, Haojin Zhu, and Xuemin (Sherman) Shen, "MagFingerprint: A Magnetic Based Device Fingerprinting in Wireless Charging," *in the IEEE International Conference on Computer Communications (INFOCOM'23)*, 2023, (CCF A).

[3] **[TII] Jiachun Li**, Yan Meng, Lichuan Ma, Suguo Du, Haojin Zhu, Qingqi Pei, and Xuemin (Sherman) Shen, "A Federated Learning based Privacy-preserving Smart Healthcare System," *IEEE Transactions on Industrial Informatics (TII)*, vol. 18, no. 3, pp. 2021-2031, 2022 (ESI Highly Cited Paper).

[4] **[TVT] Jiachun Li**, Weijiong Zhang, Yan Meng, Shaofeng Li, Lichuan Ma, Zhen Liu, and Haojin Zhu, "Secure and Efficient UAV Tracking in Space-air-ground Integrated Network," *IEEE Transactions on Vehicular Technology (TVT)*, 2023.

[5] **[ICCC'23] Jiachun Li**, Yan Meng, Le Zhang, Fazhong Liu, and Haojin Zhu, "EM-Whisperer: A Voice Injection Attack via Powerline for Virtual Meeting Scenarios," *IEEE/CIC International Conference on Communications in China (ICCC'23)*, 2023.

[6] **[ICMC'24] Jiachun Li**, Yan Meng, Haojin Zhu, "Security and Privacy in Virtual Reality: Challenges, Trends, and Countermeasures," *IEEE International Conference on Meta Computing (ICMC)*, 2024.

[7] **[ICCE'19] Jiachun Li**, Ruiqi Li, Yuting Zhou, Junlin Xian, Xiong Zhang, and Xiaojun Hei, "Inferring Student's Attention in a Machine Learning Approach: A Feasibility Study," *IEEE International Conference on Consumer Electronics-Taiwan*, 2019, EI.

[8] **[Air and Space Defense] Jiachun Li**, Weijiong Zhang, Lingcun Qiu, and Le Zhang, "Secure Routing Algorithm of Space-Air-Ground Integrated Network Based on Probability", ISSN 2096-4641, CN 31-2147/E, 2023.

[9] **[Security'22]** Yan Meng, **Jiachun Li**, Matthew Pillari, Arjun Deopujari, Liam Brennan, Hafsah Shamsie, Haojin Zhu, and Yuan Tian, "Your Microphone Array Retains Your Identity: A Robust Voice Liveness Detection System for Smart Speakers," *in the 31st USENIX Security Symposium (USENIX Security'22)*, 2022, (CCF A).

[10] **[TDSC]** Yan Meng, **Jiachun Li**, Haojin Zhu, Yuan Tian, and Jiming Chen, "Privacy-preserving Liveness Detection for Securing Smart Voice Interfaces," *IEEE Transactions on Dependable and Secure Computing*, 2023, (CCF A).

[11] **[ICCC'23]** Yan Meng, **Jiachun Li**, Fazhong Liu, Shaofeng Li, Haotian Hu, and Haojin Zhu, "GB-IDS: An Intrusion Detection System for CAN Bus Based on Graph Analysis," *IEEE/CIC International Conference on Communications in China (ICCC'23)*, 2023.

[12] **[INFOCOM'23]** Yan Meng, Yuxia Zhan, **Jiachun Li**, Suguo Du, Haojin Zhu, and Xuemin (Sherman) Shen, "De-anonymization Attacks on Metaverse," *in the IEEE International Conference on Computer Communications (INFOCOM'23)*, 2023, (CCF A).

[13] **[TMC]** Yan Meng, Yuxia Zhan, **Jiachun Li**, Suguo Du, Haojin Zhu, and Xuemin (Sherman) Shen, "De-anonymizing Avatars in Virtual Reality: Attacks and Countermeasures," *IEEE Transactions on Mobile Computing*, 2024, (CCF A).

[14] **[IWQOS'21]** Binhan Xi, Shaofeng Li, **Jiachun Li**, Hui Liu, Hong Liu, Haojin Zhu, "BatFL: Backdoor Detection on Federated Learning in e-Health," *International Workshop on Quality of Service (IWQOS)*, pp. 1-10, 2021 (CCF B).

[15] **[ICC'23]** Shaofeng Li, Wen Wu, Yan Meng, **Jiachun Li**, Haojin Zhu, and Xuemin (Sherman) Shen, "Data Poisoning Attack against Anomaly Detectors in Digital Twin-based Networks,"*2023 IEEE International Conference on Communications (ICC)*, 2023, (CCF C).

PROFESSIONAL
SERVICE

Journal Reviewer

- IEEE Transactions on Information Forensics and Security (TIFS)

- IEEE Transactions on Wireless Communications (TWC)

- IEEE Transactions on Industrial Informatics (TII)

- Peer-to-Peer Networking and Applications (PPNA)

- Transactions on Machine Learning in Communications and Networking (TMLCN)

- Wireless Network

- External Reviewer for IEEE Transactions on Mobile Computing (TMC).

Conference Reviewer

- Shadow PC for IEEE Symposium on Security and Privacy (S&P) 2021.

- Formal Reviewer for IEEE GLOBECOM, 2019, 2020, 2021.

- Formal Reviewer for IEEE ICPADS 2020.

- External Reviewer for IEEE S&P 2020, 2021.

- External Reviewer for ACM Conference on Computer and Communications Security (CCS).

- External Reviewer for USENIX Security.

- External Reviewer for Network and Distributed System Security Symposium (NDSS).

MORE
INFORMATION

More information and auxiliary documents can be found at
https://jiachunli98.github.io/.