

Jiachun Li

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RESEARCH INTERESTS	Internet of Things Security; Interface Security; Wireless Charging Security; Virtual Reality Security;	
EDUCATION EXPERIENCE	Shanghai Jiao Tong University, Shanghai, China Ph.D., Computer Science & Engineering • Adviser: Professor Haojin Zhu (IEEE Fellow)	Sep. 2020 to Jun. 2025
	Nanyang Technological University, Singapore, Singapore Ph.D., Computer Science & Engineering • Adviser: Associate Professor Jun Luo (IEEE Fellow)	Oct. 2023 to Oct. 2024
	Huazhong University of Science and Technology, Wuhan, China B.S., Communication Engineering, June 2016 • GPA: 3.92/4 (<i>Ranking: 4/131</i>)	Sep. 2016 to Jun. 2020
PUBLICATIONS	<ul style="list-style-type: none">[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,” <i>IEEE Transactions on Information Forensics and Security (TIFS)</i>, 2024, (CCF A).[2] [TDSC] Jiachun Li, Yan Meng, Le Zhang, Guoxing Chen, and Haojin Zhu, “A Magnetic Signal Based Device Fingerprinting Scheme in Wireless Charging” <i>IEEE Transactions on Dependable and Secure Computing (TDSC)</i>, 2024, to appear (CCF A).[3] [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 <i>the IEEE International Conference on Computer Communications (INFOCOM’23)</i>, 2023, (CCF A).[4] [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,” <i>IEEE Transactions on Industrial Informatics (TII)</i>, vol. 18, no. 3, pp. 2021-2031, 2022 (ESI Highly Cited Paper).[5] [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,” <i>IEEE Transactions on Vehicular Technology (TVT)</i>, 2023.[6] [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,” <i>IEEE/CIC International Conference on Communications in China (ICCC’23)</i>, 2023.[7] [ICMC’24] Jiachun Li, Yan Meng, Haojin Zhu, “Security and Privacy in Virtual Reality: Challenges, Trends, and Countermeasures,” <i>IEEE International Conference on Meta Computing (ICMC)</i>, 2024.	

- [8] **[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.
- [9] **[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.
- [10] **[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).
- [11] **[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).
- [12] **[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.
- [13] **[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).
- [14] **[TMC]** Hongbo Wang, Xin Li, **Jiachun Li**, Haojin Zhu, and Jun Luo, "VR-Fi: Positioning and Recognizing Hand Gestures via VR-embedded Wi-Fi Sensing," *IEEE Transactions on Mobile Computing*, 2025, (CCF A).
- [15] **[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).
- [16] **[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).
- [17] **[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).

HONORS & AWARDS

- [18] **National Encouragement Scholarship**, Ministry of Education of PRC, 2017.
- [19] **Merit Student**, Huazhong University of Science and Technology, 2017, 2018.
- [20] **National Scholarship**, Ministry of Education of PRC, 2018.
- [21] **Excellent Student Cadre**, Huazhong University of Science and Technology, 2018.
- [22] **Excellent League Cadre**, Huazhong University of Science and Technology, 2018.
- [23] **National Encouragement Scholarship**, Ministry of Education of PRC, 2019.
- [24] **Pacemaker to Merit Student**, Huazhong University of Science and Technology, 2019.
- [25] **Outstanding Graduates**, Huazhong University of Science and Technology, 2020.
- [26] **First prize in East China Area**, in 4-th "Changfeng Cup" National College Contest, Chinese Institute of Electronics, 2021.

- [27] **Merit Student**, Shanghai Jiao Tong University, 2021, 2022, 2023.
- [28] **Excellent League Member**, Shanghai Jiao Tong University, 2021, 2022.
- [29] **Huatai Securities Scholarship**, Shanghai Jiao Tong University, 2023.
- [30] **Scholarship from China Scholarship Council**, China Scholarship Council, 2023.

PROFESSIONAL
SERVICE

Journal Reviewer

- IEEE Transactions on Information Forensics and Security (TIFS)
- IEEE Transactions on Wireless Communications (TWC)
- IEEE Transactions on Mobile Computing (TMC)
- IEEE Transactions on Industrial Informatics (TII)
- Peer-to-Peer Networking and Applications (PPNA)
- Transactions on Machine Learning in Communications and Networking (TMLCN)
- Wireless Network

Conference Reviewer

- 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/>.