

EDUCATION

Dual PhD programme at City University of Hong Kong and Wuhan University

PhD training in Computer Science, City University of Hong Kong Hong Kong
Advisor: Prof. Cong Wang 2020–2024

PhD training in Cyber Science and Engineering, Wuhan University China Mainland
Advisor: Prof. Qian Wang 2019–2024

Bachelor programme at Wuhan University

B.S. in Information Security, GPA: 3.90/4.00 (Rank: 1/153) China Mainland
2015–2019

WORKING EXPERIENCE

City University of Hong Kong Hong Kong
Postdoctoral Fellow, Host: Dr. Qingchuan Zhao July 2024 - Now

City University of Hong Kong Hong Kong
Research Assistant, Host: Prof. Cong Wang Sept. 2022 - Mar. 2024

PUBLICATIONS

Selected Refereed Conference and Workshop Papers

- C-1. **Peipei Jiang**, Qian Wang, Yihao Wu, and Cong Wang. Poster: Metadata-Private Messaging without Coordination. *The 30th ACM Conference on Computer and Communications Security (CCS'23, Poster session)*, November 26-30, 2023.
Acceptance ratio = $45/95 = 47.4\%$.
- C-2. **Peipei Jiang**, Qian Wang, Jianhao Cheng, Cong Wang, Lei Xu, Xinyu Wang, Yihao Wu, Xiaoyuan Li, and Kui Ren. Boomerang: Metadata-Private Messaging under Hardware Trust. *USENIX Symposium on Networked Systems Design and Implementation (NSDI'23)*, April 17-19, 2023.
Acceptance ratio = $46/288 = 15.9\%$.
- C-3. Baolin Zheng*, **Peipei Jiang***, Qian Wang, Qi Li, Chao Shen, Cong Wang, Yunjie Ge, Qingyang Teng, and Shenyi Zhang. Black-box Adversarial Attacks on Commercial Speech Platforms with Minimal Information. *The 28th ACM Conference on Computer and Communications Security (CCS'21)*, November 15-19, 2021. (*: the first two authors contributed equally to this work).
Acceptance ratio = $196/879 = 22\%$.
- C-4. Yunjie Ge, Pinji Chen, Qian Wang, Lingchen Zhao, Ningping Mou, **Peipei Jiang**, Cong Wang, Qi Li, and Chao Shen. More Simplicity for Trainers, More Opportunity for Attackers: Black-Box Attacks on Speaker Recognition Systems by Inferring Feature Extractor. *USENIX Security 2024*, August 14–16, 2024.
Acceptance ratio = $417/2176 = 19\%$.

Selected Refereed Journal Articles

- J-1. **Peipei Jiang**, Qian Wang, Xiu Lin, Man Zhou, Wenbing Ding, Cong Wang, Chao Shen, and Qi Li. Securing Liveness Detection for Voice Authentication via Pop Noises. *IEEE Transactions on Dependable and Secure Computing (TDSC)*, Vol 20, No. 2, pp. 1702 - 1718, Mar. 2023.
JCR Rank Q1. Impact Factor is 7.329.
- J-2. **Peipei Jiang**, Qian Wang, Muqi Huang, Cong Wang, Qi Li, Chao Shen, Kui Ren. Building In-the-Cloud Network Functions: Security and Privacy Challenges. *Proceedings of the IEEE (PIEEE)*, Vol 109, No. 12, pp. 1888 - 1919, Dec. 2021.
JCR Rank Q1. Impact Factor is 14.717.
- J-3. Shenyi Zhang, Baolin Zheng, **Peipei Jiang**, Lingchen Zhao, Chao Shen, and Qian Wang. Perception-driven Imperceptible Adversarial Attack against Decision-based Black-box Models. *IEEE Transactions on Information Forensics and Security (TIFS)*, Vol 19, pp. 3164-3177, 2024.
JCR Rank Q1. Impact Factor is 6.8.
- J-4. Minxin Du, **Peipei Jiang**, Qian Wang, Sherman S. M. Chow, Lingchen Zhao. Shielding Graph for eXact Analytics With SGX. *IEEE Transactions on Dependable and Secure Computing (TDSC)*, Vol 20, No. 6, pp. 5102-5112, 2023.
JCR Rank Q1. Impact Factor is 7.329.
- J-5. Dan Liu, Qian Wang, Man Zhou, **Peipei Jiang**, Qi Li, Chao Shen, Cong Wang. SoundID: Securing Mobile Two-Factor Authentication via Acoustic Signals. *IEEE Transactions on Dependable and Secure Computing (TDSC)*, Vol 20, No. 2, pp. 1687 - 1701, Mar. 2023.
JCR Rank Q1. Impact Factor is 7.329.
- J-6. Man Zhou, Qian Wang, Xiu Lin, Yi Zhao, **Peipei Jiang**, Qi Li, Chao Shen, Cong Wang. PressPIN: Enabling Secure PIN Authentication on Mobile Devices via Structure-Borne Sounds. *IEEE Transactions on Dependable and Secure Computing (TDSC)*, Vol 20, No. 2, pp. 1228 - 1412, Mar. 2023.
JCR Rank Q1. Impact Factor is 7.329.
- J-7. Minxin Du, Shuangke Wu, Qian Wang, Dian Chen, **Peipei Jiang**, and Aziz Mohaisen. GraphShield: Dynamic Large Graphs for Secure Queries with Forward Privacy. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, Vol 34, No. 7, pp. 3295 - 3308, July 2022.
JCR Rank Q1. Impact Factor is 8.613.
- J-8. Man Zhou, Qian Wang, Jingxiao Yang, Qi Li, **Peipei Jiang**, Yanjiao Chen, and Zhibo Wang. Stealing Your Android Patterns via Acoustic Signals. *IEEE Transactions on Mobile Computing (TMC)*, Vol 20, No. 4, pp. 1656 - 1671, Apr. 2022.
JCR Rank Q1. Impact Factor is 7.916.

SCHOLARSHIPS AND AWARDS

Scholarships

- Outstanding Academic Performance Scholarship, The First Class Award, Wuhan University 2023
- National Scholarship for Doctoral Students, China 2022
- The First Class Scholarship for Doctoral Students, Wuhan University 2022 and 2023
- Excellent Freshman Scholarship for Postgraduate, Outstanding Award (Top 1), Wuhan University 2019
- Cyber Security Scholarship (66 undergraduate awardees nationwide in 2018), China 2018
- National Scholarship for Undergraduate Students, China 2017 and 2018
- The First Class Scholarship, Wuhan University 2016, 2017, and 2018

Awards

- USENIX NSDI '23 Travel Grant, USENIX 2023
- Merit Student, Wuhan University 2022 and 2023
- Outstanding Undergraduate, Wuhan University 2019
- Lead Merit Student (1/153), Wuhan University 2018
- Excellent Student Cadre, Wuhan University 2017
- Merit Student, Wuhan University 2016 and 2017

TEACHING

- **Teaching Assistant**, Department of Computer Science, City University of Hong Kong Fall 2021 - Spring 2022
Information Security and Management (CS4394), Information Security Technology Management (CS5294), Topics in Cybersecurity (CS4293), Topics on Information Security (CS5293)
- **Teaching Assistant**, School of Cyber Science and Engineering, Wuhan University Spring 2020
Computer Programming

SERVICES

Reviewer

- Journals: IEEE TDSC, IEEE ToN, IEEE IoTJ
- Conferences (external): Usenix Security 2024, ACM MM 2023, ACM WWW 2023, NDSS 2022

REFERENCES

- Qian Wang, Professor, IEEE Fellow, Wuhan University, qianwang@whu.edu.cn

Link: <http://nisplab.whu.edu.cn/people.html>

- Cong Wang, Professor, IEEE Fellow, City University of Hong Kong, congwang@cityu.edu.hk

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