

DIANQI HAN

CONTACT INFORMATION

ERB 647, 500 UTA Blvd,
Arlington, TX 76019

Tel: 480-452-6014
Email: dianqi.han@uta.edu

EDUCATION

- 8/2022 *Arizona State University* Tempe, Arizona
▪ Ph.D. in Computer Engineering
- 7/2015 *University of California, Davis* Davis, California
▪ M.S. in Electrical and Computer Engineering
- 6/2010 *University of Science and Technology of China* Hefei, China
▪ B.E. in Information Security

PROFESSIONAL EXPERIENCE

- 8/2022 – present *University of Texas at Arlington* Arlington, Texas
Assistant Professor, Computer Science and Engineering Department
- 8/2016 – 7/2022 *Arizona State University* Tempe, Arizona
Research/Teaching Assistant, School of Electrical, Computer and Energy Engineering

RESEARCH INTERESTS

My research interests is security and privacy in networked systems, with current focuses on AI security, the security of intelligent wireless sensing systems, multimodal security mechanism design, the security of unmanned autonomous vehicle systems, and reliable autonomous driving systems.

AWARDS

Multimodal Sensing-Based Security Mechanisms for IoT Systems (2025-2027), NSF CSR Core, Sole UTA PI.

Remote Diagnosis of Drone Hardware Malfunctions Using mmWave Sensing (2025-2026), UTA Research Enhancement Program (REP), sole PI.

Robust IoT Networks in the Era of Artificial Intelligence (2022-2025), UT System–Faculty Science and Technology Acquisition and Retention (STARs) program, sole PI.

PUBLICATIONS

1. Aliu Akinwale, Wentao Gao, Jiawei Li, Ang Li, Xiaojun Shang, Yanchao Zhang, **Dianqi Han**, “Practical Reflection Manipulation on mmWave-Based Physical Intrusion Detection,” *IEEE Conference on Communications and Network Security (CNS’25)*.
2. Yan Zhang, Jiawei Li, **Dianqi Han**, and Yanchao Zhang “W-MIA: Membership Inference Attack against Deep Learning-based RF Fingerprinting,” *IEEE Conference on Communications and Network Security (CNS’24)*.

3. **Dianqi Han**, Ang Li, Jiawei Li, Yan Zhang, Tao Li, and Yanchao Zhang “WaveKey: Secure Mobile Ad Hoc Access to RFID-Protected Systems,” *IEEE International Conference on Distributed Computing Systems (ICDCS’24)*.
4. Ang Li, Jiawei Li, **Dianqi Han**, Yan Zhang, Tao Li, Ting Zhu, and Yanchao Zhang, “PhyAuth: Physical-layer message authentication for ZigBee networks,” *USENIX Security Symposium (USENIX’23)*.
5. Ang Li, Jiawei Li, Yan Zhang, **Dianqi Han**, Tao Li, and Yanchao Zhang, “Secure UHF RFID Authentication with Smart Devices,” *IEEE Transactions on Wireless Communications*, accepted for publication, 2022.
6. Jiawei Li, Chuyu Wang, Ang Li, **Dianqi Han**, Yan Zhang, Jinhang Zuo, Rui Zhang, Lei Xie, Yanchao Zhang, “Rhythmic RFID Authentication,” *IEEE/ACM Transactions on Networking*, accepted for publication, 2022.
7. Ang Li, Jiawei Li, **Dianqi Han**, Yan Zhang, Tao Li, Yanchao Zhang, “WearRF-CLA: Continuous Location Authentication with Wrist Wearable and UHF RFID,” *ACM on Asia Conference on Computer and Communications Security (AsiaCCS’22)*, May 2022.
8. Jiawei Li, Ang Li, **Dianqi Han**, Yan Zhang, Tao Li, Yanchao Zhang, “RCID: Fingerprinting Passive RFID Tags via Wideband Backscatter,” *IEEE International Conference on Computer Communications (INFOCOM’22)*, May 2022.
9. Yan Zhang, **Dianqi Han**, Ang Li, Jiawei Li, Tao Li, and Yanchao Zhang, “SmartMagnet: Proximity-Based Access Control for IoT Devices with Smartphones and Magnets,” *IEEE Transactions on Mobile Computing*, accepted for publication, 2022.
10. Yan Zhang, Ang Li, Jiawei Li, **Dianqi Han**, Tao Li, Rui Zhang, and Yanchao Zhang, “SpecK-riging: GNN-based Secure Cooperative Spectrum Sensing”, *IEEE Transactions on Wireless Communications*, accepted for publication, 2022.
11. **Dianqi Han**, Ang Li, Yan Zhang, Jiawei Li, Lili Zhang, Tao Li, and Yanchao Zhang, “DroneKey: A Drone-Aided Group-Key Generation Scheme for Large-Scale IoT Networks,” *ACM Conference on Computer and Communications Security (CCS’21)*, November 2021.
12. **Dianqi Han**, Ang Li, Lili Zhang, Yan Zhang, Jiawei Li, Tao Li, Ting Zhu, and Yanchao Zhang, “Deep Learning-Guided Jamming for Cross-Technology Wireless Networks: Attack and Defense,” *IEEE Transactions on Networking*, accepted for publication, 2021.
13. **Dianqi Han**, Ang Li, Tao Li, Lili Zhang, Yan Zhang, Jiawei Li, Rui Zhang, and Yanchao Zhang, “(In)secure Acoustic Mobile Authentication,” *IEEE Transactions on Mobile Computing*, accepted for publication, 2021.
14. Yan Zhang, **Dianqi Han**, Ang Li, Lili Zhang, Tao Li, and Yanchao Zhang, “MagAuth: Secure and Usable Two-Factor Authentication with Magnetic Wrist Wearables,” *IEEE Transactions on Mobile Computing*, accepted for publication, 2021.
15. Tao Li, **Dianqi Han**, Jiawei Li, Ang Li, Yan Zhang, Rui Zhang, and Yanchao Zhang, “Your Home is Insecure: Practical Attacks on Wireless Home Alarm Systems,” *IEEE International Conference on Computer Communications (INFOCOM’21)*, May 2021.
16. Jiawei Li, Chuyu Wang, Ang Li, **Dianqi Han**, Yan Zhang, Jinhang Zuo, Rui Zhang, Lei Xie, and Yanchao Zhang, “RF-Rhythm: Secure and Usable Two-Factor RFID Authentication,” *IEEE International Conference on Computer Communications (INFOCOM’20)*, July 2020.
17. Tao Li, **Dianqi Han**, Yimin Chen, Rui Zhang, and Yanchao Zhang, “IndoorWaze: a Crowdsourcing-Based Context-Aware Indoor Navigation System,” *IEEE Transactions on Wireless Communication*, accepted for publication, 2020.

18. Lili Zhang, **Dianqi Han**, Ang Li, Tao Li, Yan Zhang, and Yanchao Zhang, "WristUnlock: Secure and Usable Smartphone Unlocking with Wrist Wearables," *IEEE International Conference on Communications and Network Security (CNS'19)*, Washington, DC, June 2019.
19. **Dianqi Han**, Yimin Chen, Tao Li, Rui Zhang, Yanchao Zhang, and Terri Hedgpeth, "Proximity-Proof: Secure and Usable Two-Factor Mobile Authentication," *ACM Annual International Conference on Mobile Computing and Networking (MobiCom'18)*, New Delhi, India, October 2018.
20. Libao He, Liusheng Huang, Wei Yang, Rui Xu, and **Dianqi Han**, "Cryptanalysis and melioration of secure quantum sealed-bid auction with post-confirmation," *Quantum Information Processing*, 2012.

PATENTS

1. Yanchao Zhang and **Dianqi Han**, "Method and Apparatus for Secure and Usable Mobile Two-Factor Authentication," *United States Patent 20190362064*.

PROFESSIONAL ACTIVITIES

- **TPC member** on USENIX Security (2026), IEEE INFOCOM (2024, 2025, 2026), IEEE INFOCOM Demo (2023, 2024), IEEE IPCCC (2023, 2024)
- **Session chair** on IEEE INFOCOM (2023, 2024), ICDCS (2024), CNS (2025)
- **Web chair and workshop chair** on IEEE WoWMoM (2025)
- **Journal reviewer** for: IEEE Transactions on Mobile Computing, IEEE/ACM Transactions on Networking, IEEE Internet of Things Journal, IEEE Transactions on Dependable and Secure Computing, ACM computing surveys, IEEE Access, Journal of Parallel and Distributed Computing, Wireless Networks, IEEE Transactions on Network Science and Engineering