Moh Kashani

mkashani.phd@gmail.com — https://mkashani.com

EDUCATION

University of Wisconsin-Madison	(Expected 2026) **M.S.**, *Physics - Quantum Computing*
Iowa State University	2025 **Ph.D.**, *Computer Engineering*
Iowa State University	2024 **M.S.**, *Computer Engineering*
AmirKabir University	2019 **B.S.**, *Electrical Engineering*

RESEARCH EXPERIENCE

My research areas include wireless network security, quantum networks, and applied deep learning.

University of Wisconsin-Madison Physics Department (Madison, WI, USA)	09/2025 – now	**Quantum Networks** Advisor: Prof. Mark Saffman
Iowa State University ECE Department (Ames, IA, USA)	08/2019 – 08/2025	**5G and Wireless Security** Advisor: Prof. Ashfaq Khokhar coAdvisor: Prof. Sang Kim

INDUSTRY EXPERIENCE

Corteva Agriscience (Johnston, IA, USA)	01/2023 – 12/2023	**Software and Automation Engineering Co-op** Supervisor: Joe Hynek
SoilSerdem (Ames, IA, USA)	07/2022 – 08/2022	**Software Development Intern** Supervisor: Yones Khaledian

TEACHING EXPERIENCE

Iowa State University ECE Department (Ames, IA, USA)	08/2019 – 05/2022	**Teaching Assistant** Logic Circuits, Introduction to C Supervisor: Alexander Stoytchev Supervisor: Thomas Daniels

PUBLICATIONS AND PAPERS

- OptiMAC: Adaptive Security Optimization for Message Authentication Code in Adversarial Environment. SeyedMohammad Kashani, Erfan Khademnia, Görkem Emirhüseyinoğlu, Yilu Dong, Tianwei Wu, Sang Wu Kim, Ashfaq Khokhar, Farid Nait-Abdesselam, and Syed Rafiul Hussain. In *IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*, 2026.
- Enhancing NextG Wireless Security: A Lightweight Secret Sharing Scheme with Robust Integrity Check for Military Communications. Abhisek Kumar Jha, SeyedMohammad Kashani, Hossein Mohammadi, Andre Kirchner, Minglong Zhang, Remi A. Chou, Sang Wu Kim, Hyuck Kwon, Vuk Marojevic, Taejoon Kim. *IEEE Military Communication (MILCOM)*, 2024.
- Poster: Securing Relay Satellite System: Direct MAC Transmission by Superposition Coding. SeyedMohammad Kashani, Branden L. Buhler, Sang Wu Kim, and Ashfaq Khokhar. In *Network and Distributed System Security (NDSS) Symposium*, 2026.
- Post-Quantum SIM-Less Authentication: Scalable and Secure Solutions for FutureG IoT Networks. Abhisek Kumar Jha, SeyedMohammad Kashani, Sang Wu Kim, Ashfaq Khokhar, and Fethi Nait-Abdesselam. In *IEEE Military Communications Conference (MILCOM)*, 2025.
- Radio Frequency Fingerprinting in WBANs Using Complex-Valued CNNs. SeyedMohammad Kashani, Syed Sherazi, Ashfaq Khokhar, Sung-Woo Kim, and Fethi Nait-Abdesselam. In *IEEE International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2024.
- Bluetooth Low Energy (BLE) RF Dataset for Machine Learning in WBANs. SeyedMohammad Kashani, Syed Sherazi, Ashfaq Khokhar, et al. In *IEEE Wireless Communications and Networking Conference (WCNC)*, 2024.
- A Channel-Based Authentication Using Machine Learning for Body Sensor Networks. SeyedMohammad Kashani, Syed Sherazi, Ashfaq Khokhar, et al. In *IEEE Global Communications Conference (GlobeCom)*, 2022.
- Two-Dimensional Compound Message Authentication Code in Lossy Channels. SeyedMohammad Kashani, Sung-Woo Kim, and Ashfaq Khokhar. In *IEEE International Conference on Communications (ICC)*, 2025.

AWARDS

- National Science Foundation NeTS Early Career Investigation Workshop, 2024.
- Best Graduate Seminar Award, "Radio Frequency Fingerprinting in Wireless Body Area Networks," Iowa State University, 2024.
- Second-Best thesis award, "Multi-Agent Autonomous Vehicle System," AmirKabir University, 2019.

MISCELLANY

- **Dataset Release:** Co-authored and publicly released the BLE-WBAN dataset, capturing real-world RF signals from BLE devices in human-centric healthcare environments. Available on IEEE DataPort: https://ieee-dataport.org/documents/ble-wban-rf-real-world-dataset-ble-devices-human-centric-healthcare-environments