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)	08/2025 – 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
AmirKabir University ECE Department (Tehran, Iran)	11/2018 – 06/2019	**Robotics and Control** Advisor: Prof. HeydarAli Talebi coAdvisor: Dr. Iman Sharifi

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
AmirKabir University ECE Department (Ames, IA, USA)	01/2019 – 05/2019	**Teaching Assistant** Computer Architecture, Digital Control Supervisor: HeydarAli Talebi Supervisor: Abolghasem Asadollah Raie

INDUSTRY EXPERIENCE

Corteva Agriscience (Johnston, IA, USA)	01/2023 – 12/2023	**Software and Automation Engineer Intern** Supervisor: Joe Hynek

PUBLICATIONS AND PAPERS

- 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.
- 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 (MICOM)*, 2024.

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

- **Media Coverage:** Featured in Iowa State University's College of Engineering news article, "Moh Kashani working to safeguard medical devices," highlighting research on securing wearable medical devices against wireless signal attacks. https://news.engineering.iastate.edu/2025/01/14/moh-kashani-working-to-safeguard-medical-devices/
- **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