

M. Hammad Mazhar

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🐦 HmdMazhar

Research Interests

IoT Systems, Security, Privacy, Formal Verification

Education

- 2016–2023 **Ph.D. in Computer Science**
Thesis: Improving Security of IoT Systems using Usable Policy Enforcement
Department of Computer Science, The University of Iowa
- 2012–2016 **B.S. in Computer Science**
Lahore University of Management Sciences, Pakistan

Professional Experience

- 2024–present **Assistant Professor of Computer Science**
Department of Mathematical Sciences, University of Northern Colorado.
- 2023 **Co-Instructor**
CS:1110 (Introduction to Computer Science)
Department of Computer Science, University of Iowa
- 2016–2023 **Graduate Research Assistant**
Department of Computer Science, The University of Iowa
- 2019 **Security Research Intern**
Minim Inc., Manchester, NH
- 2017, 2019, 2022–2023 **Graduate Teaching Assistant**
CS:1110 (Introduction to Computer Science)
CS:2210 (Discrete Structures)
CS:2620 (Networking and Security for Informatics)
CS:4980 (Mobile Systems and Smartphone Security)
Department of Computer Science, The University of Iowa
- 2014–2016 **Research Assistant**
Department of Computer Science, Lahore University of Management Sciences
- 2014–2016 **Teaching Assistant**
Department of Computer Science, Lahore University of Management Sciences

Publications

- WiSec **Maverick: An App-independent and Platform-agnostic Approach to Enforce Policies in IoT Systems at Runtime.**
M. Hammad Mazhar, Li Li, Endadul Hoque, Omar Chowdhury
ACM Conference on Security and Privacy of Wireless Networks (WiSec), Surrey, United Kingdom, 2023
- CCS **All your credentials are belong to us: On Insecure WPA2-Enterprise Configurations**
Man Hong Hue, Joyanta Debnath, Kin Man Leung, Li Li, Mohsen Minaei, **M. Hammad Mazhar**, Kailiang Xian, Endadul Hoque, Omar Chowdhury, Sze Yiu Chau
ACM Conference on Computer and Communications Security (CCS), Virtual, 2021

IoTDI **Characterizing Smart Home IoT Traffic in the Wild**
M. Hammad Mazhar, Zubair Shafiq
ACM/IEEE Internet of Things Design and Implementation (IoTDI), Sydney, Australia, 2020

INFOCOM **Real Time Video Quality of Experience Monitoring for HTTPS and QUIC**
M. Hammad Mazhar, Zubair Shafiq
IEEE International Conference on Computer Communications (INFOCOM) , Honolulu, 2018

Honors and Awards

2021 **Graduate College Summer Fellowship**, University of Iowa
2021 **Graduate College Post-Comprehensive Fellowship**, University of Iowa
2018 **Best-in-Session Presentation Award**, IEEE INFOCOM
2016-2018 **Student Travel Awards**, ACM CoNEXT, ACM IMC, ACM SIGMETRICS, PETS

Services

AEC Member ACM Conference on emerging Networking EXperiments and Technologies - *ACM CoNEXT 2023*
Ext. Reviewer European Symposium on Research in Computer Security - *ESORICS 2022*
AEC Member USENIX Security Symposium - *USENIX Security 2021*
Shadow PC IEEE Security and Privacy Symposium - *IEEE S&P, 2021*
Member
TPC Member EAI International Conference on e-Infrastructure and e-Services for Developing Countries - *EAI AFRICOMM 2020*
Ext. Reviewer Network Traffic Measurement and Analysis - *TMA 2019*
Shadow PC ACM Internet Measurement Conference - *ACM IMC, 2018*
Member

References

Prof. Omar Chowdhury Associate Professor, Department of Computer Science, Stony Brook University.
omar@cs.stonybrook.edu
Prof. Endadul Hoque Assistant Professor, Department of EECS, Syracuse University
enhoque@syr.edu
Prof. Jodie Novak Department Chair, Department of Mathematical Sciences, University of Northern Colorado
jodie.novak@unco.edu