M. Hammad Mazhar

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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

2023–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 Member	IEEE Security and Privacy Symposium - *IEEE S&P, 2021*
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 Member	ACM Internet Measuremnet Conference - *ACM IMC, 2018*

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. Elizabeth Kleiman	Associate Professor of Instruction, Department of Computer Science, The University of Iowa elizabeth-kleiman@uiowa.edu