Wajih Ul Hassan

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Research Interests

System Security, Threat Detection, Forensic Investigation, and Data Provenance

Current Professional Appointment

The University of Virginia (UVA) **USA**
Tenure-Track Assistant Professor *August 2022 – Present*
Department of Computer Science and School of Data Science

Education

University of Illinois at Urbana-Champaign (UIUC), USA
Ph.D., Computer Science *2015 – 2021*
Advisor: Dr. Adam Bates.
Thesis: Investigating System Intrusions with Data Provenance Analytics

Lahore University of Management Sciences (LUMS), Pakistan
Bachelor of Science, Computer Science *2011 – 2015*

Selected Awards & Honors

- NSF CAREER Award 2024-2029
- Weaver Faculty Fellowship, UVA 2022-2025

Selected Publications

[1] Mati Ur Rehman, Hadi Ahmadi, and Wajih Ul Hassan. "FLASH: A Comprehensive Approach to Intrusion Detection via Provenance Graph Representation Learning". In: *IEEE Symposium on Security and Privacy (S&P)*. Acceptance Rate: 17.8%. 2024.

[2] Muhammad Adil Inam, Yinfang Chen, Akul Goyal, Jason Liu, Jaron Mink, Noor Michael, Sneha Gaur, Adam Bates, and Wajih Ul Hassan. "SoK: History is a Vast Early Warning System: Auditing the Provenance of System Intrusions". In: *IEEE Symposium on Security and Privacy (S&P)*. Acceptance Rate: 17.1%. 2023.

[3] Wajih Ul Hassan, Adam Bates, and Daniel Marino. "Tactical Provenance Analysis for Endpoint Detection and Response Systems". In: *IEEE Symposium on Security and Privacy (S&P)*. Acceptance Rate: 12.3%. 2020.

[4] Qi Wang, Wajih Ul Hassan, Ding Li, Kangkook Jee, Xiao Yu, Kexuan Zou, Junghwan Rhee, Zhengzhang Chen, Wei Cheng, Carl A Gunter, et al. "You Are What You Do: Hunting Stealthy Malware via Data Provenance Analysis." In: *Symposium on Network and Distributed System Security (NDSS)*. Acceptance Rate: 17.4%. 2020.

[5] Wajih Ul Hassan, Shengjian Guo, Ding Li, Zhengzhang Chen, Kangkook Jee, Zhichun Li, and Adam Bates. "NoDoze: Combatting threat alert fatigue with automated provenance triage". In: *Symposium on Network and Distributed System Security (NDSS)*. Acceptance Rate: 17%. 2019.

[6] Wajih Ul Hassan, Mark Lemay, Nuraini Aguse, Adam Bates, and Thomas Moyer. "Towards scalable cluster auditing through grammatical inference over provenance graphs". In: *Symposium on Network and Distributed System Security (NDSS)*. Acceptance Rate: 21.5%. 2018.