Yousra Javed, Ph.D.

Assistant Professor, School of Information Technology, Illinois State University

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Google Scholar: https://scholar.google.com/citations?user=hoxGszUAAAAJ

Website: https://itk.ilstu.edu//faculty/yjaved/

ACADEMIC BACKGROUND

University of North Carolina, Charlotte, NC

2017

Ph.D. in Computing and Information Systems

Dissertation Title: "Towards Effective Third-Party Application Dialogs: Solutions for Improved Attention and Comprehension"

National University of Sciences and Technology, Islamabad, Pakistan

2011

Masters in Communication Systems Engineering (MS-CSE)

National University of Sciences and Technology, Islamabad, Pakistan

2008

Bachelors in Information and Communication Systems Engineering (BICSE)

WORK EXPERIENCE

Illinois State University, Normal, IL

Assistant Professor, School of Information Technology

Aug 2017 – Present

National University of Sciences and Technology, Islamabad, Pakistan

Assistant Professor, School of Electrical Engineering and Computer Science

Aug 2019 – Aug 2021

University of North Carolina, Charlotte, NC

Course Instructor, School of Computing, and Informatics

Summer 2015, Spring 2017

Research and Teaching Assistant, School of Computing, and Informatics

Jan 2012 - Dec 2016

National University of Sciences and Technology, Islamabad, Pakistan

Research Assistant, School of Electrical Engineering and Computer Science

Aug 2008 – Dec 2011

SCHOLARLY PRODUCTIVITY

Peer-Reviewed Journal Articles

- 1. **Yousra Javed**, and Ayesha Sajid, "One Decade of Privacy Policy Literature: A Systematic Review". *ACM Computing Surveys* (2023) (Under Review)
- 2. Laila Dahabiyeh, Ali Farooq, Farhan Ahmad, and **Yousra Javed**. "Explaining technology migration against the change in terms of use: an fsQCA approach." *Information Technology & People* (2023) https://doi.org/10.1108/ITP-07-2022-0498
- 3. Ali Farooq, Laila Dahabiyeh, **Yousra Javed**, "When WhatsApp changed its privacy policy: explaining WhatsApp discontinuation using an enablers-inhibitors' perspective. *Online Information Review* (2023) https://doi.org/10.1108/OIR-04-2022-0232

- 4. **Yousra Javed**, Elham Al Qahtani, and Mohamed Shehab, "User Perceptions of Gmail's Confidential Mode", *Proceedings on Privacy Enhancing Technologies (PoPETs)*, 2022
- 5. M. Raheel Arshad, Mehdi Hussain, Hasan Tahir, Sana Qadir, F. I. Ahmed Memon and **Yousra Javed**, "Forensic Analysis of Tor Browser on Windows 10 and Android 10 Operating Systems," *IEEE Access*, vol. 9, pp. 141273-141294, 2021, doi: 10.1109/ACCESS.2021.3119724.
- 6. **Yousra Javed**, Elham Al Qahtani, and Mohamed Shehab, "Privacy Policy Analysis of Banks and Mobile Money Services in the Middle East", *MDPI Future Internet*, Vol. 13, No. 1, Jan, 2021.
- 7. **Yousra Javed**, Khondaker Salehin, and Mohamed Shehab, "A Study of South Asian Websites on Privacy Compliance", *IEEE Access*, DOI: 10.1109/ACCESS.2020.3019334, 2020
- 8. **Yousra Javed**, and Mohamed Shehab, "Look Before You Authorize: Using Eye-Tracking to Enforce User Attention Towards Application Permissions", *Proceedings on Privacy Enhancing Technologies* (*PoPETs*), 2017
- 9. Mohamed Shehab, Hakim Touati, and **Yousra Javed**, "Semi-supervised policy recommendation for online social networks", *Social Network Analysis and Mining (SNAM)*, 2016

Conference Publications

- 1. Elham Al Qahtani, **Yousra Javed**, Sarah Tabassum and Mohamed Shehab "Replication: What Would Motivate Users to Use Gmail's Confidential Mode?". *57th Annual Hawaii International Conference on System Sciences (HICSS)*, 2023 (Under Review)
- 2. Ali Farooq, Joni Salminen, Laila Dahabiyeh, **Yousra Javed**, and Bernard Jansen "The Effect of Negative Electronic and Offline WOM Social Media Privacy Attitudes and Discontinuation Intention: Evidence from Three Countries", *57th Annual Hawaii International Conference on System Sciences (HICSS)*, 2023 (Under Review)
- 3. **Yousra Javed** and Iqra Irfan "An Empirical Evaluation of the Current State of Phishing Comprehension in Pakistan". 57th Annual Hawaii International Conference on System Sciences (HICSS), 2023 (Under Review)
- 4. Ayesha Sajid and **Yousra Javed**, "Sector-wise Investigation of BYOD Security Policies in Pakistan," *IEEE 19th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET)*, Marietta, GA, USA, 2022, pp. 099-104, doi: 10.1109/HONET56683.2022.10019015.
- 5. Alia Umrani, **Yousra Javed** and M. Iftikhar, "Network Forensic Analysis of Twitter Application on Android OS," *2022 International Conference on Frontiers of Information Technology (FIT)*, Islamabad, Pakistan, 2022, pp. 249-254, doi: 10.1109/FIT57066.2022.00053.
- 6. Elham Al Qahtani, Lipsa Sahoo, **Yousra Javed**, Mohamed Shehab, "Why would someone hack me out of thousands of students: Video presenter's impact on motivating users to adopt 2FA", *ACM SACMAT* 2022
- 7. Muhammad Asif, **Yousra Javed**, and Mehdi Hussain, "Automated Analysis of Pakistani Websites' Compliance with GDPR and Pakistan Data Protection Act", *Proceedings of the 18th International Conference on Frontiers of Information Technology (FIT)*, Dec 2021, Islamabad, Pakistan.
- 8. **Yousra Javed** and Mohamed Shehab (2021), "Managing and Monitoring Social Network Privacy Policies", *In Jajodia S., Samarati P., Yung M.* (eds) Encyclopedia of Cryptography, Security and Privacy, Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-27739-9 1600-1
- 9. Abeer Gauher, Alia Umrani, and **Yousra Javed**, "Communication Security in VANETs", *Proceedings of the 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT & AI (HONET)*, Dec, 2020, Charlotte, USA.
- 10. James Nicholson, **Yousra Javed**, Matt Dixon, Lyne Coventry, Opeyemi Dele Ajayi, Philip Anderson, "Investigating Teenagers' Ability to Detect Phishing Messages", *European Workshop on Usable Security (EuroUSEC)*, 2020.

- 11. Elham Al Qahtani, **Yousra Javed**, Heather Lipford, and Mohamed Shehab, "Do Women in Conservative Societies (Not) Follow Smartphone Security Advice? A Case Study of Saudi Arabia and Pakistan", *European Workshop on Usable Security (EuroUSEC)*, 2020.
- 12. **Yousra Javed**, Elham Al Qahtani, and Mohamed Shehab. The Impact of Advertisements on User Attention During Permission Authorization, 22nd HCI International Conference, HCII 2020, 2020
- 13. **Yousra Javed**, Navid Rajabi, "Multi-Layer Perceptron Artificial Neural Network Based IoT Botnet Traffic Classification", *Future Technologies Conference (FTC)*, October 2019
- 14. **Yousra Javed**, Shashank Sethi, and Akshay Jadoun. "Alexa's Voice Recording Behavior: A Survey of User Understanding and Awareness." *Proceedings of the 14th International Conference on Availability, Reliability and Security (ARES)*, ACM, August 2019.
- 15. **Yousra Javed**, Mohamed Shehab, and Emmanuel Bello Ogunu, "Investigating User Comprehension and Risk Perception of Apple's Touch ID Technology", *International Conference on Availability, Reliability and Security (ARES)*, August 2017
- 16. **Lina** Lee, **Yousra Javed**, Steven Danilowicz, and Mary Lou Maher, "Information at the Wave of Your Hand", *Proceedings of HCI Korea (HCIK)*, December 2014
- 17. **Yousra Javed**, and Mohamed Shehab, "Access Control Policy Misconfiguration Detection on Social Networks", *ASE/IEEE International Conference on Social Computing (SocialCom)*, September 2013
- 18. **Yousra Javed** and Mohamed Shehab, "How do Facebookers use Friendlists", *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, August 2012
- 19. **Yousra Javed** and Muhammad Murtaza Khan, "Population Density Estimation Using Textons", *IEEE international Geoscience and Remote Sensing Symposium (IGARSS)*, July 2012
- 20. **Yousra Javed**, Maliha Nazir, Muhammad Murtaza Khan, Syed Ali Khayam and Shujun Li, "Captchæcker: Reconfigurable CAPTCHAs Based on Automated Security and Usability Analysis", *Symposium on Configuration Analytics and Automation (SafeConfig)*, November 2011
- 21. Toni Perkovic, Asma Mumtaz, **Yousra Javed**, Shujun Li, Mario Cagalj and Syed Ali Khayam, "Breaking Undercover: Exploiting Insecure Human Behavior and Design Flaws", *Symposium on Usable Privacy and Security (SOUPS)*, July 2011
- 22. Hassan Khan, **Yousra Javed**, Fauzan Mirza and S. Ali Khayam, "Embedding a Covert Channel in Active Network Connections," *IEEE Global Telecommunications Conference (GlobeCom)*, 2009

Workshop Publications

- 1. Elham Al Qahtani, **Yousra Javed**, Heather Lipford, and Mohamed Shehab, "Usable Security and Privacy in Muslim Communities", *5th SOUPS Workshop on Inclusive Privacy and Security (WIPS)*, August 2020
- 2. **Yousra Javed**, Boyd Davis, and Mohamed Shehab, "Seniors' Media Preference for Receiving Internet Security Information: A Pilot Study", *MobileHCI*, Sept 2018
- 3. **Yousra Javed**, and Mohamed Shehab, "Investigating the Animation of Application Permission Dialogs: A Case Study of Facebook", *ESORICS Workshop on Data Privacy Management (DPM)*, 2016

Abstract/Poster Publications

- 1. **Yousra Javed**, and Mohamed Shehab, "Visual Analysis of Photo Policy Misconfigurations Using Treemaps", *Symposium on Usable Privacy and Security (SOUPS)*, August 2018
- 2. **Yousra Javed**, and Mohamed Shehab, "Towards Improving User Comprehension of Touch ID-Based Authentication with Third-Party Applications", *IEEE Symposium on Privacy-Aware Computing (PAC)*, 2017
- 3. **Yousra Javed**, and Heather Richter Lipford, "A Body of Knowledge for Usable Security and Privacy Education", *Symposium on Usable Privacy and Security (SOUPS)*, June 2016

- 4. **Yousra Javed**, and Heather Richter Lipford, "A Body of Knowledge for Usable Security and Privacy Education", 47th ACM Technical Symposium on Computing Science Education (SIGCSE), March 2016
- 5. Maliha Nazir, **Yousra Javed**, Muhammad Murtaza Khan, Syed Ali Khayam and Shujun Li, "Captchæcker Automating Usability-Security Evaluation of Textual CAPTCHAs", *Symposium on Usable Privacy and Security (SOUPS)*, July 2011

GRANTS

- 1. Erasmus+ (Senior Personnel). Proposal Title: "ReCyP:HER Rethinking Cybersecurity in Pakistan: Human factors' Essential Role" (2020), Duration: 3 years, Amount: 1,000,000 EUR
- 2. NSF SaTC: EDU (Senior Personnel). Proposal Title: "Vertically-Aligned Hands-on Cybersecurity Curriculum Based on Adversarial Thinking" (2021), Duration: 3 years, Amount: 400,000 USD
- 3. Illinois State University Research Grant (SRG) (2023). Proposal Title: "DHash: Design and Evaluation of Doodle-based Hash Representation Scheme", Duration: 1 year, Amount: 5,000 USD
- 4. Illinois State University Research Grant (URG) (2022). Proposal Title: "Systematization of Knowledge on Privacy Policies", Duration: 1 year, Amount: 5,000 USD
- 5. Illinois State University School of IT SEED Grant (2021). Proposal Title: "Privacy compliance in the education sector", Duration: 1 year, Amount: 3,000 USD
- 6. ISU CAST DEBI Grant (Co-PI) (2021) Proposal Title: "Using Information Technology to Foster Diversity, Equity, Belonging, and Inclusion", Duration: 1 year, Amount: 5,000 USD
- 7. Illinois State University Research Grant (URG) (2019). Proposal Title: "Alexa's Voice Recording Behavior A Survey of User Understanding and Awareness", Duration: 1 year, Amount: 5,000 USD
- 8. Illinois State University New Faculty Startup Award (2017) Proposal Title: "Usable Privacy Policies", Duration: 2 years, Amount: 3,500 USD

TEACHING EXPERIENCE

Courses Taught - Illinois State University, Normal, Illinois

- IT 168: Structured Problem Solving Using the Computer (Java)
- IT 250: Fundamentals of Information Assurance and Security
- IT 351: Practical Cryptography and Trusted Systems
- IT 353: Web Development Technologies
- IT494: Graduate Directed Project
- IT 287: Independent Study
- HON 285/286: Honors Undergraduate Research

Courses Taught - NUST-SEECS, Islamabad, Pakistan

- CS 260: Human Computer Interaction
- CS 381: Network Security
- IS 842: Advanced Cryptography 1
- IS 890: Advanced Topics in Information Security

Courses Taught - University of North Carolina, Charlotte, NC

- ITIS 3200: Introduction to Information Security and Privacy
- HCIP 6201: Computer Security, Privacy, and Legal Issues
- ITIS/CS 4180/5180 Mobile Application Development (Android)

Graduate Project Advisor/Committee Member - Illinois State University, Normal, Illinois

- Shashank Sethi, "Chrome Extension for Understanding Website's Privacy Policy"
- Kunal Hemnani, "Movie Recommender Systems"
- Matthew West, "Security Manual for Enabling Users"
- Anagha Bhide, "Enroller"

Honors Program - Illinois State University, Normal, Illinois

- Elyse Abadeer
- · Vinnie Schick
- · Adam Barnard
- Myesha Choudhury
- · Casey Johnson
- Bryan Greenberg
- Nathan Stukenberg

Master's Thesis Advisor – NUST-SEECS, Islamabad, Pakistan

- Ayesha Sajid, "Sector-wide Investigation of BYOD Security Policies in Pakistan"
- Iqra Irfan, "Reducing the Risk of Phishing in Pakistan Through Effective Awareness Framework"
- Muhammad Asif, "Automated Analysis of Pakistani Websites' Compliance with GDPR and Pakistan Data Protection Act"
- Osama Bin Masood, "WordPress Security Plugin"
- Abeer Gauher, "A Generic Framework for IoT Forensic Investigation"
- Alia Umrani, "Network Traffic Analysis of Twitter"

Final Year Project Advisor - NUST-SEECS, Islamabad, Pakistan

- Zeyad Ahmed and Ramlah Aamir Aziz, "Secure Electronic Medical Record System Using Blockchain"
- Amna Muqeem, Immad Amir, and Aksa, "Mobile App for Running Home Kitchen"
- Hafiz Muhammad Yaseen, Muhammad Usama Latif, and Muhammad Tayyab, Anti-phishing Training Game for Pakistan"

SERVICE & OUTREACH

Conferences and Journals

- Reviewer
 2014 Present

 Served as an external reviewer for several conferences and journals including ACM SACMAT,
 ACM CHI, ACM SIGCSE, ACM CSCW, Women in Cyber Security (WiCyS), IEEE HONET, IEEE
 Access, Springer SNAM, PETS
- *TPC member and Co-Chair*Served on the technical papers and lightening talks committee for Symposium on Usable Privacy and Security, AI and Cybersecurity Solutions (AICS), Future Technologies Conference (FTC), and Digital Futures and Transformative Technologies (ICoDT2)

•	Central Illinois High School Cyber Defense Competition Organizer	2022 - Present	
	Led the annual Cybersecurity competition for local high school students		
•	Cybersecurity Student Club Advisor	2021 - Present	
	Mentored the students in organizing workshops/talks as well as participating in competition	s and	
	conferences, such as DoE CyberForce Competition, National Cyber League Competition, and	nd	
	THOTCON		
•	Scholarship Committee	2018, 2022	
	Served on the scholarship committee to select deserving undergraduate and graduate students		
•	Faculty Search Committee	2018, 2021	
	Served on the search committee and helped with reviewing Cybersecurity candidate applications, as well		
	as conducting zoom interviews and campus visits		
•	Assessment Committee	2022 - Present	
	Conducted meetings to discuss progress towards Cybersecurity program outcomes, as well as to make		
	any changes to Cybersecurity assessment plan		
•	Guest Lecturer	2019 - 2023	
	Gave talks on various Cyber Security topics to middle and high school students visiting ISU		
•	Poster Judge	2023	
	Served as a judge for the poster presentations at the High School Research Symposium		
•	Mobile Application Development Contest Judge	2018 - Present	
	Served as a judge for the mobile application development contest sponsored by State Farm		
•	Dissertation Completion Grant Reviewer	2018	

School of Electrical Engineering and Computer Science, NUST

Focal Person for Internationalization	2020-2021
Master of Ceremony for UG Convocation	2019
Member of QS Ranking Committee	2019
Member of 10 Year Expansion Plan Committee	2019

Reviewed doctoral students' applications from the dissertation completion grant completion