

MADIHA TABASSUM

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📍 University of North Carolina, Charlotte, North Carolina

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RESEARCH AREA

Usable Security and Privacy, Security Education, Human Computer Interaction (HCI)

WORK EXPERIENCE

Graduate Research Assistant

University of North Carolina at Charlotte

📅 Aug 2016 – Dec 2021 📍 Charlotte, NC

- Developed several components of a tool, [ESIDE](#) for educating students about secure programming.
- Collected and analyzed qualitative and quantitative data to evaluate different methods of secure programming education.
- Developed and conducted user studies to investigate the impact of security and privacy in the smart phone and smart home.
- Performed different qualitative and quantitative analysis on the data collected from the studies.

Graduate Student Instructor

University of North Carolina at Charlotte

📅 Aug 2019 – Dec 2019 📍 Charlotte, NC

- Taught graduate and undergraduate students the basics of Secure Programming and Penetration Testing.

Graduate Student Mentor

University of North Carolina at Charlotte

📅 May 2019 – Jul 2019 📍 Charlotte, NC

- Mentored visiting undergraduate research students.
- Demystified the research process and expected outcomes. Oversee students progress.
- Worked with students on meeting milestones.

Summer Research Intern

International Computer Science Institute

📅 May 2018 – Aug 2018 📍 Berkeley, CA

- Designed and conducted a survey study to understand the end users' privacy expectations and role of contextual factors in shaping their information sharing norms around always listening voice assistants.
- Performed statistical and thematic analysis, write up the findings, and submitted a research paper after the internship.

SERVICES

Lab Demo Coordinator

University of North Carolina at Charlotte

📅 Jan 2017 – Apr 2018 📍 Charlotte, NC

- Organized lab tours for HCI lab of UNCC showcasing the active projects to prospective students and parents

EDUCATION

Ph.D. in Computing and Information Systems

University of North Carolina at Charlotte

📅 Aug 2016 – Present

M.Sc., Computer Science

University of Dhaka, Bangladesh

📅 Jan 2014 – Jun 2015

B.Sc., Computer Science

University of Dhaka, Bangladesh

📅 Feb 2009 – Mar 2013

SKILLS

Programming: C, Java, PHP, SQL, Python

Tool: HTML, CSS/CSS3, Javascript, SPSS, Justinmind, Figma(basic), Photoshop (basic).

User Research: Usability study, Eye-tracking, Interview, Survey design & deployment, Experience sampling study, Diary study .

Design: Persona, Storyboarding, User journey, Empathy map, Prototyping, Cognitive Walk-through, Heuristic Evaluation.

SELECTED PUBLICATIONS

- **Madiha Tabassum**, Jess Kropczynski, Pamela Wisniewski, Heather Lipford. "Smart Home Beyond the Home: A Case for Community-Based Access Control", in the proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), April, 2020.
- **Madiha Tabassum**, Tomasz Kosinski, Alisa Frik, Nathan Malkin, Primal Wijesekera, Serge Egelman, Heather Richter Lipford. "Investigating Users' Preferences and Expectations for Always-Listening Voice Assistants", in the proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, IMWUT (issue 4), 2019.
- **Madiha Tabassum**, Tomasz Kosinski, Heather Richter Lipford. "'I don't own the data': End User Perceptions of Smart Home Device Data Practices and Risks" in the proceedings of the Symposium on Usable Privacy and Security (SOUPS), August, 2019.
- **Madiha Tabassum**, Abdulmajeed Alqhatani, Marran Aldossari, Heather Richter Lipford. "Increasing User Attention with a Comic-based Policy", in the proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), April, 2018.
- Tyler Thomas, **Madiha Tabassum**, Bill Chu, Heather Lipford. "Security During Application Development: an Application Security Expert Perspective", in the proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), April, 2018.

AWARDS

- Received Grace Hopper scholarship to attend GHC 2018
- Received scholarship to attend ACM-W Grad Cohort workshop 2017

REFERENCE

Heather Richter Lipford, Ph.D.

Professor, University of North Carolina at Charlotte

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