

HANA T. HABIB

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RESEARCH AREA

Societal Computing; Human-Computer Interaction (HCI);

EDUCATION

Carnegie Mellon University, School of Computer Science, Pittsburgh, PA

Ph.D in Societal Computing

Graduated September 2021

Dissertation: Evaluating the Usability of Privacy Choice Mechanisms

Carnegie Mellon University, Pittsburgh, PA • Mountain View, CA

M.S. Information Technology-Information Security

Graduated December 2015

Cornell University, College of Engineering, Ithaca, NY

B.S. Independent Major-Computer Science, Electrical and Computer Engineering

Graduated May 2013

PUBLICATIONS

Hana Habib, Sarah Pearman, Ellie Young, Lorrie Faith Cranor. "Identifying User Needs for Advertising Controls on Facebook." *In Proceedings of the Conference on Computer-Supported Cooperative Work And Social Computing (CSCW)*. 2022.

Hana Habib, Megan Li, Ellie Young, Lorrie Faith Cranor. "'Okay, whatever': An Evaluation of Cookie Consent Interfaces." *In Proceedings of the Conference on Human Factors in Computing Systems (CHI)*. 2022.

Verena Distler, Matthias Fassl, **Hana Habib**, Katharina Krombholz, Gabriele Lenzini, Carine Lallemand, Lorrie Cranor, Vincent Koenig. "A Systematic Literature Review of Empirical Methods and Risk Representation in Usable Privacy and Security Research." *Transactions on Computer-Human Interaction (ToCHI)*. 2021.

Hana Habib, Yixin Zou, Yaxing Yao, Alessandro Acquisti, Lorrie Faith Cranor, Joel Reidenberg, Norman Sadeh, Florian Schaub. "Toggles, Dollar Signs, and Triangles: How to (In)Effectively Convey Privacy Choices with Icons and Link Texts." *In Proceedings of the Conference on Human Factors in Computing Systems (CHI)*. 2021.

Hana Habib, Sarah Pearman, Jiamin Wang, Yixin Zou, Alessandro Acquisti, Lorrie Faith Cranor, Norman Sadeh, Florian Schaub. "'It's a scavenger hunt': Usability of Websites' Opt-Out and Data Deletion Choices." *In Proceedings of the Conference on Human Factors in Computing Systems (CHI)*. 2020.

Vinayshekhar Bannihatti Kumar, Roger Iyengar, Namita Nisal, Yuanyuan Feng, **Hana Habib**, Peter Story, Sushain Cherivirala, Margaret Hagan, Lorrie Faith Cranor, Shomir Wilson, Florian Schaub, Norman Sadeh. "Finding a Choice in a Haystack: Automatic Extraction of Opt-Out Statements from Privacy Policy Text." *In Proceedings of the Web Conference (the Web Conf)*. 2020.

Hana Habib, Yixin Zou, Aditi Jannu, Neha Sridhar, Chelse, Swoopes, Alessandro Acquisti, Lorrie Faith Cranor, Norman Sadeh, Florian Schaub. "An Empirical

Analysis of Data Deletion and Opt-Out Choices on 150 Websites." *In Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*. 2019.

Hana Habib, Neil Shah, and Rajan Vaish. "Impact of Contextual Factors on Snapchat Public Sharing." *In Proceedings of the Conference on Human Factors in Computing Systems (CHI)*. 2019. **Best Paper Honorable Mention award**.

Hana Habib, Jessica Colnago, Vidya Gopalakrishnan, Sarah Pearman, Jeremy Thomas, Alessandro Acquisti, Nicolas Christin, and Lorrie Faith Cranor. "Away From Prying Eyes: Analyzing Usage and Understanding of Private Browsing." *In Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*. 2018.

Hana Habib, Pardis Emami Naeini, Summer Devlin, Maggie Oates, Chelse Swoopes, Lujo Bauer, Nicolas Christin, and Lorrie Faith Cranor. "User Behaviors and Attitudes Under Password Expiration Policies." *In Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*. 2018.

Hana Habib, Jessica Colnago, William Melicher, Blase Ur, Sean Segreti, Lujo Bauer, Nicolas Christin, and Lorrie Faith Cranor. "Password Creation in the Presence of Blacklists." *In Proceedings of the Workshop on Usable Security (USEC)*. 2017.

Sarah Pearman, Jeremy Thomas, Pardis Emami Naeini, **Hana Habib**, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Serge Egelman, and Alain Forget. "Let's go in for a closer look: Observing passwords in their natural habitat." *In Proceedings of the Conference on Computer and Communications Security (CCS)*. 2017.

Pardis Emami Naeini, Sruti Bhagavatula, **Hana Habib**, Martin Degeling, Lujo Bauer, Lorrie Cranor, Norman Sadeh. "Privacy Expectations and Preferences in an IoT World." *In Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*. 2017.

Blase Ur, Felicia Alfieri, Maung Aung, Lujo Bauer, Nicolas Christin, Jessica Colnago, Lorrie Faith Cranor, Henry Dixon, Pardis Emami Naeini, **Hana Habib**, Noah Johnson, and William Melicher. "Design and Evaluation of a Data-Driven Password Meter." *In Proceedings of the Conference on Human Factors in Computing Systems (CHI)*. 2017. **Best Paper Award**.

Joshua Gluck, Florian Schaub, Amy Friedman, **Hana Habib**, Norman Sadeh, Lorrie Faith Cranor, and Yuvraj Agarwal. "How Short Is Too Short? Implications of Length and Framing on the Effectiveness of Privacy Notices." *In Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*. 2016.

Manya Sleeper, William Melicher, **Hana Habib**, Lujo Bauer, Lorrie Faith Cranor, and Michelle L. Mazurek. "Sharing personal content online: Exploring channel choice and multi-channel behaviors." *In Proceedings of the Conference on Human Factors in Computing Systems (CHI)*. 2016.

Hana Qudsi and Maneesh Gupta. "Low-Cost, Thermistor Based Respiration Monitor." *In Proceedings of the Southern Biomedical Engineering Conference (SBEC)*. 2013.

WORK EXPERIENCE

Jan. 2022 – Present

The Collaboratory Against Hate, Pittsburgh, PA

Postdoctoral Researcher

- Conducting a user study to explore the effectiveness of different design interventions in preventing individuals who encounter hateful messaging online from acquiring and propagating such views.

Aug. 2016 – Sept. 2021

CMU CyLab Usable Privacy & Security Lab, Pittsburgh, PA

Graduate Research Assistant

- Developed user study protocols to investigate research questions in the space of usable privacy and security
- Utilized quantitative and qualitative methods to analyze data collected from user studies
- Served as a Teaching Assistant during the Fall 2016 semester for Privacy Policy, Law, and Technology, a cross-discipline graduate level course
- Served as a Teaching Assistant during the Spring 2019 semester for Usable Privacy and Security, a research methods focused graduate level course

May 2018 – Aug. 2018

Snap Inc., Los Angeles, CA

Research Intern

- Designed and conducted a user study to better understand the role of context on public sharing decisions of Snapchat users
- Communicated study findings to stakeholders within the company to inform future product development
- Collaborated with Marketing, Privacy Engineering, and Legal teams to help establish organizational processes for conducting HCI research

May 2015 – Aug. 2015

Apple Inc., Cupertino, CA

Privacy Engineering Intern

- Collaborated with teams cross-functionally to ensure privacy-protective feature designs for new and existing Apple products
- Developed tools to automate recurring Privacy Engineering tasks
- Analyzed reported data to better understand customer privacy needs
- Created awareness of privacy-related technology challenges within Apple and proposed novel solutions

Jan. 2015 – Dec. 2015

CMU CyLab Usable Privacy & Security Lab, Pittsburgh, PA

Graduate Research Assistant

- Helped design a user study protocol to investigate effective notification mediums for Internet of Things devices
- Modified a PhoneGap Android application to send push notifications containing variations of a privacy notice for a Fitbit device
- Facilitated a diary and interview study of online data sharing practices in order to better understand user requirements for applications and services

June 2013 – July 2016

National Security Agency (NSA), Fort George G. Meade, MD

Product Owner, Product Source Node Development Branch

- Implemented generation of additional cryptographic products by a Key Management Infrastructure (KMI)
- Managed team work items to ensure progress towards program goals
- Provided updates to system components to integrate new KMI capabilities
- Virtualized system components for use in the development environment

SCHOLARSHIPS AND AWARDS

- Awarded a \$50,000 research grant from Facebook
- Participant in the 2019 Rising Stars Workshop
- Participant in the 2017/2018 Privacy Scholars Fellowship Program
- Recipient of the 2017/2018 and 2019/2020 CyLab Presidential Fellowship
- Recipient of the 2014 Executive Women's Forum Fellowship
- Graduate of NSA's Stokes Educational Scholarship Program

SERVICE

- Who Are You!? Adventures in Authentication (WAY'19) Program Committee
- PhD Women@SCS Board (2019)
- Graduate Student Assembly (2019)
- OurCS Conference Committee (2019)
- OurCS Facilitator (2017, 2019)
- INI Alumni Leadership Council Member (2018-2021)

CERTIFICATIONS AND SKILLS

- IAPP Certified Information Privacy Technologist (CIPT)
- *Frameworks & Tools*: MySQL, Git, Subversion, IBM SPSS, R
- *Programming Languages*: Java, Python, C, C++, PHP, JavaScript

COURSEWORK

Object Oriented Programming • Discrete Structures • Probability & Statistics • Technical Writing • Operating Systems • Fundamentals of Telecommunications • Systems Security • Foundations of Privacy • Privacy Policy and Law • Usable Privacy & Security • Mobile Security • Engineering Privacy in Software • Applied Machine Learning • Applied Data Analysis • Designing Human Centered Software