Updated March 2025


# Maxwell Keleher

maxwellkeleher@cmail.carleton.ca | keleher.ca


## Education

2023-2027 (expected) *Doctor of Philosophy Computer Science*
School of Computer Science, Carleton University, Canada
Thesis: Towards a Sustainable Security Framework
Supervisors: Prof. Sonia Chiasson, Prof. David Barrera

2021-2023 *Master of Computer Science Specializing in Human Computer Interaction*
School of Computer Science, Carleton University, Canada
Supervisor: Prof. Sonia Chiasson

2016-2020 *Bachelor of Computing (Honours) Specializing in Computer Science*
School of Computing, Queen's University, Canada

## Honours and Awards

2023 NSERC Doctoral Award (PGS D), 2023-26 ($120,000 CAD)
2023 (Nomination) University Medal for Outstanding Graduate Work
2022 Queen Elizabeth II Graduate Scholarship in Science & Technology (QEII-GSST) ($15,000 CAD)

## Publications

2025 (In Submission) **Keleher M.**, Baig, K., Chiasson, S. 2025. The Privacy Triad: The Relationship Between Privacy Attitudes and Computers Are Social Actors. International Journal of Human-Computer Studies. 20 pages

2025 (In Submission) Baig, K., **Keleher, M.**, Chiasson, S. 2025. "It belongs to me": Biological Family Members' Perceptions of At-home DNA Testing. Symposium on Usable Privacy and Security (SOUPS 2025). 20 pages

2025 **Keleher, M.**, Barrera, D., Chiasson, S. 2025. Balancing Security and Longevity: Benefits of Modular IoT Infrastructure. New Security Paradigms Workshop (NSPW '24) 15 pages

2024 Marino, D., **Keleher, M.**, Chmielowiec, K., Hilliard, A., Dawidowski, P. 2024. Operator-Centered Design of a Nodal Loadability Network Visualization. Workshop on Energy Data Visualization (EnergyVis). 4 pages

2024 Zhang-Kennedy, L., **Keleher, M**., and Valiquette, M. 2024. Navigating the Gray: Design Practitioners' Mental Processes and Rationalization of Deceptive Design Patterns that Negatively Impact Privacy. ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW). 23 pages

2022 **Keleher, M**., Westin, F., Nagabandi, P., Chiasson, S. 2022. How Well Do Experts Understand End-Users' Perceptions of Manipulative Patterns? In Nordic Human-Computer Interaction Conference (NordiCHI '22). 21 pages

## Research and Work Experience

2021–Present Mixed Methods Research Assistant
Dr. Sonia Chiasson, Carleton University
*I was lead author of 2 published papers. I prepared the background literature, conducted statistical analysis, and interpreted the results for both studies. For one study, I was also responsible for developing the survey that collected quantitative and qualitative data.*

2025–Present Sustainable Security Research Assistant
Trail of Bits, Remote
*I am consulting on a project about developing a system to reuse Graphics Processing Units GPUs which are no longer suitable for their original purpose.*

2024 UX & Human Factors Research Internship, Hitachi Énergie Canada Inc.
Digital Power Grid Center, Montréal QC
*I conducted and analyzed interviews with experts reviewing a power grid visualization prototype. I conducted background research, including a prior art search, developed a data parsing tool, and designed low fidelity prototypes of a contingency analysis tool.*

2022 Qualitative Analysis Research Assistant
Dr. Leah Zhang-Kennedy, University of Waterloo
*I conducted reflexive thematic analysis of 23 interview. I also worked with Prof Zhang-Kennedy to build a compelling narrative out of the analysis and helped her write a paper about the study, published at CSCW 2024.*

2020–2021 Software Engineer, Microsoft
Microsoft Headquarters, Redmond WA
*I designed, developed, and deployed a dashboard to detect and manage incidents. I conducted qualitative user studies to improve the dashboard. I designed, developed, and deployed a prototype dashboard to drive greater than 99% data quality across all regions.*

## Other Research Projects

2024 Owning for a Good Time or a Long Time: Expectation of IoT Longevity and Reasons for Decommissioning (For COMP 5119)
*Conducted a pilot study of a survey about Internet of Things (IoT) device longevity expectations and disposal behaviours.*

## Teaching Experience

2024 Contract Instructor at Carleton University School of Computer Science
(COMP 3008: Introduction to Human Computer Interaction)

2021–2023 Teaching Assistant at Carleton University School of Computer Science

## Volunteering and Committees

2025 Short Paper Reviewer, ACM CHI Conference on Human Factors in Computing Systems
2024 Poster Review Jury, Symposium on Usable Privacy and Security (SOUPS)
2024 Communications Officer CapCHI Student Network
2023–2024 Founding Organizer (Carleton Representative), CapCHI Student Network
2023–2024 Student Volunteer, Capital Computer-Human Interaction (CapCHI)
2023 Poster Review Jury, Symposium on Usable Privacy and Security (SOUPS)

## Skills

Research Qualitative research, Quantitative research, Mixed methods, Statistical analysis, Interviews, Surveys, Usability testing, Communication, Collaboration, Wireframing, UX design, Eye tracking, Human-computer interaction

Technical Figma, R, Python, HTML, CSS, Javascript, React, Vue