

Maxwell Keleher Curriculum Vitae

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Ottawa, ON, Canada

Education

- 2023-2027 (expected) *Doctor of Philosophy Computer Science*
School of Computer Science, Carleton University, Canada
Thesis: TBD
Supervisor: Dr. Sonia Chiasson, Professor
- 2021-2023 *Master of Computer Science Specializing in Human Computer Interaction*
Department of Human Computer Interaction, Carleton University, Canada
Thesis: Exploring Privacy Implications of Devices as Social Actors
Supervisor: Dr. Sonia Chiasson, Professor
- 2016-2020 *Bachelor of Computing (Honours) Specializing in Computer Science*
School of Computing, Queen's University, Canada
Thesis: Fuzzy Expert System for Monochromatic Colouring of Video Subtitles
Supervisor: Dr. Robin Dawes, Associate Professor

Honours and Awards

- 2023 Natural Sciences and Engineering Research Council (NSERC) Doctoral Award (PGS D), 2023-26 (\$63,000 CAD)
- 2023 **(Nomination)** University Medal for Outstanding Graduate Work
- 2023 Carleton Computer Science Departmental Scholarship (\$10,000 CAD)
- 2023 Carleton Domestic Entrance Doctoral Scholarship (\$3,000 CAD)
- 2022 Queen Elizabeth II Graduate Scholarship in Science & Technology (QEII-GSST) (\$15,000 CAD)
- 2022 Carleton HCI Departmental Scholarship (\$5,300 CAD)
- 2022 Dean's Honour List at Carleton University, indicating a cumulative GPA of 10.0 and higher
- 2022 Hendrika Alice Eisen Fund for attending CHI (\$225 CAD)
- 2021 Carleton HCI Departmental Scholarship (\$5,300 CAD)
- 2020 Dean's Honour List at Queen's University, indicating a cumulative GPA of 3.5 and higher
- 2016 Queen's University Excellence Scholarship for entrance average of 90%+ (\$2000 CAD)

Publications

- 2023 (Accepted) 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 Conference On Computer-Supported Cooperative Work And Social Computing (CSCW)
- 2022 **Keleher, M.**, Westin, F., Nagabandi, P., Chiasson, S. (2022) How well do experts understand end-users' perceptions of manipulative patterns? NordiCHI 2022

- 2022 **Keleher, M.** Adaptive Colouring of Video Captions using a Fuzzy Expert System (2021)
National Conference on Undergraduate Research 2021

Invited Talks

- 2023 CASA and Privacy Attitudes and Behaviours, CapCHI Student Showcase, Capital Computer-Human Interaction (CapCHI), Ottawa

Other Research Projects

- 2023 Looking Towards The Light: An Eye-Tracking Analysis of Deceptive and Bright Patterns (For COMP 5900F)
Designed and conducted a pilot eye-tracking study evaluating the usability of bright patterns as an alternative to deceptive patterns.
- 2022 Post-Secondary Student Perceptions of an Emotional AI For Promoting Self-Gratitude in On-line Learning with Zahra Alizadeh Elizei, Christos Karanassios, and Alicia Ouskiné (For HCIN 5300)
We designed and evaluated 3 prototypes using a survey and semi-structured interviews. We analyzed our results with descriptive statistics and reflexive thematic analysis.
- 2022 “I wasn’t keeping track of movies anywhere”: Cognitive offloading with Letterboxd (For HCIN 5100)
I conducted usability studies and semi-structured interviews to analyze the usability of the film-based social media website, Letterboxd. I used descriptive statistics and reflexive thematic analysis to analyze my results.
- 2021 Understanding and Perceptions of Online Targeted Advertising with Kasma Chaudhry (For HCIN 5100)
We conducted semi-structured interviews to understand end-users perceptions and mental models of online targeted advertising. We analyzed our results with reflexive thematic analysis.

Research Experience

- 2021–Present Research Assistant
Dr. Sonia Chiasson, Department of Computer Science, Carleton University
I led a research project where I prepared the background literature, conducted the statistical analysis, and interpreted the results of a study about experts understand of end-users' perceptions of manipulative patterns. I was lead author of a paper written for this study which I presented at NordiCHI in Oct 2022.
- 2022 Research Assistant
Dr. Leah Zhang-Kennedy, Stratford School of Interaction Design and Business, University of Waterloo
I conducted reflexive thematic analysis of 23 60-to-90-minute interview transcripts. 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 which has been accepted at CSCW 2024.

Teaching Experience

- 2023 Teaching Assistant, COMP 3804: Design and Analysis of Algorithms I
School of Computer Science, Carleton University, Fall Semester
- 2023 Teaching Assistant, COMP 4108: Computer Systems Security
School of Computer Science, Carleton University, Winter Semester
- 2022 Teaching Assistant, COMP 3008: Introduction to Human Computer Interaction
School of Computer Science, Carleton University, Fall Semester
- 2022 Teaching Assistant, COMP 3008: Introduction to Human Computer Interaction
School of Computer Science, Carleton University, Winter Semester
- 2021 Teaching Assistant, COMP 2402: Abstract Data Types and Algorithms
School of Computer Science, Carleton University, Fall Semester
- 2020 Teaching Assistant, CISC 235: Data Structures
School of Computing, Queen's University, Winter Semester
- 2019 Teaching Assistant, CISC 204: Logic for Computing Science
School of Computing, Queen's University, Fall Semester
- 2019 Teaching Assistant, CISC 102: Discrete Mathematics for Computing I
School of Computing, Queen's University, Summer Semester
- 2017 Teaching Assistant, CISC 102: Discrete Mathematics for Computing I
School of Computing, Queen's University, Fall Semester

Professional Experience

- 2020–2021 Software Engineer, Microsoft
Microsoft Headquarters, Redmond WA
Designed, developed, and deployed a dashboard to detect and manage incidents. Conducted qualitative user studies to improve upon the dashboard. Designed, developed, and deployed a prototype dashboard to drive greater than 99% data quality across all regions.
- 2019 Summer Intern, Dunin-Despande Queen's Innovation Centre
Queen's University, Kingston ON
I developed a company in 4 months with a team of 3 other students. I participated in workshops from experts in business and design, including user-centered and systems such as working in diverse groups, public presentations, and graphic/web design.

- 2018–2019 Student President, Queen’s Computer Students Association
Queen’s University School of Computing, Kingston ON
I attended and represented the association at meetings, including the School of Computing Council, Arts and Science Faculty Board, and Alma Mater Society. I also sat on the hiring panel for the School of Computing Orientation Chair and oversaw a budget exceeding \$20,000.
- 2018 Full Stack Intern, Lytica Inc
Lytica Offices, Ottawa ON
I worked on migrating an automation project from PhantomJS to Java and Selenium. I developed a prototype web scraper that checked company websites for ISO certifications. I built admin dashboards with JavaScript libraries to allow for testing of both projects.

Volunteer Experience

- 2023–2024 Volunteer, Capital Computer-Human Interaction (CapCHI)
Ottawa, ON
- 2019–2020 IT Officer, Queen’s Women in Computing
Kingston, ON
- 2018 Thinking about Drinking Orientation Training Facilitator, Queen’s Alma Mater Society
Kingston, ON
- 2017–2018 Academic Chair, Queen’s Computing Orientation Week
Kingston, ON
- 2017 Orientation Leader, Queen’s Computer Orientation Week
Kingston, ON

Committees

- 2023 Poster Review Jury, Nineteenth Symposium on Usable Privacy and Security (SOUPS)
- 2018–2019 Council Chair, Queen’s Computing Students’ Association, Queen’s University ON
- 2018–2019 Member, Queen’s Alma Mater Society Presidents’ Caucus, Queen’s University ON
- 2018–2019 Voting Member, Queen’s Alma Mater Society Assembly, Queen’s University ON
- 2017–2018 Council Member, Queen’s Computing Students’ Association, Queen’s University ON
- 2017 Computing Representative, A. Benidickson Tricolour Award Selection Committee,
Queen’s University ON
- 2016 – 2017 First Year Representative, Queen’s Computing Students’ Association, Queen’s University
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