

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 Medals 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. (2023), 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

- 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 Ouskine (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 Kazma 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
- 2022-2023 Research Assistant
Dr. Leah Zhang-Kennedy, Stratford School of Interaction Design and Business, University of Waterloo

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 1
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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