

Maxwell Keleher Curriculum Vitae

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Ottawa, ON, Canada

Education

2021-2023 (expected) *Master of Computer Science – 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

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 (Submitted) 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. SIGCHI Conference on Human Factors in Computing Systems (CHI)

2022 (Accepted) **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

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

- 2022–Present Research Assistant
Dr. Leah Zhang-Kennedy, Stratford School of Interaction Design and Business,
University of Waterloo
- 2021–Present Research Assistant
Dr. Sonia Chiasson, Department of Computer Science, Carleton University

Teaching Experience

- 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

- 2019–2020 IT Officer, Queen's Women in Computing
 Kingston ON
- 2017–2018 Academic Chair, Queen's Computing Orientation Week
 Kingston ON
- 2017 Orientation Leader, Queen's Computer Orientation Week
 Kingston ON

Committees

- 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 ON