

Anthony Maocheia-Ricci

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Research Interests:

Co-design and Community-Based/Participatory Action Research methodologies; Advocacy, organizing and labour studies; Design of collaborative and social computing technologies; Computational Creativity

Education:

Incoming PhD Student in Information @ University of Toronto

Research Area: *Social/Critical Computing*, Supervised by [Dr. Priyank Chandra](#) and Dr. Evan Light

Starting September 2026, Toronto, ON

Candidate for Masters of Mathematics in Computer Science @ University of Waterloo

Research Area: *Human-Computer Interaction*, Supervised by [Dr. Edith Law](#)

September 2025 – Present (Est. Defense Date: July 2026), Waterloo, ON

Honours Bachelor of Computer Science @ University of Waterloo

Specialization in *Human-Computer Interaction*, Minors in *Psychology and Cognitive Science*

September 2020 – April 2025, Waterloo, ON

Publications:

Conference Proceedings and Journal Articles (Peer Reviewed)

- [C2] **Anthony Maocheia-Ricci***, Nabil Bin Hannan*, Chunxu Yang, Alex Lu, Weldon Scott, Alex Rus, Grace Xu, Michelle Ma, Maggie Guo, Melissa Finn, Namiko Huynh, Bessma Momani and Edith Law. 2026. Accounting for (Dis)advantages in Capability Sensitive Design for Marginalized Communities. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*.
- [C1] Nabil Bin Hannan, Casey O'Neill, **Anthony Maocheia-Ricci**, and Edith Law. 2025. LTJ: A Capability-based Digital Journaling Tool to Support Well-being of Newcomers in Life Transition. In *Proc. ACM Hum.-Comput. Interact (CSCW '25)*.

* Denotes equal contribution

Workshop Papers or Proposals (Lightly Peer Reviewed or Juried)

- [W3] Sejal Agarwal*, Delara Forghani*, Brandon Lit*, Thomas Driscoll* and **Anthony Maocheia-Ricci***. 2026. What is (H)CI: Why Does the “Human” Matter? *Accepted workshop proposal for Graphics Interface 2026*.
- [W2] **Anthony Maocheia-Ricci** and Edith Law. 2026. Building a “-Sensitive Design” Methodology from Political Philosophies or Ideologies. In *CHIdeology (CHI '26 Workshop)*.
- [W1] **Anthony Maocheia-Ricci**. 2026. Citizens Artsembly: Participatory Art-making for Climate Justice. In *Designing for “Last Mile” Climate Resilience with Communities (CHI '26 Workshop)*.

Other Articles (Juried)

- [A1] Angela Li, Erin Walshaw, Alexandra Roszczenko, and **Anthony Maocheia-Ricci**. 2026. Digital Civics and Community Engagement with Technology. In *Notes from the Margin: Directed Reading Program Articles*

Research Reports and Preprints (Not Peer Reviewed)

- [R2] Brandon Lit*, **Anthony Maocheia-Ricci*** and Thomas Driscoll*. 2026. Exploring the Output of Software Testing Tools through a Visual Comparative Analysis. [arXiv:2605.04189 \[cs.HC, cs.SE\]](https://arxiv.org/abs/2605.04189)
- [R1] Janna Martin, Dayan De Souza, **Anthony Maocheia-Ricci**, and Rich Janzen. 2025. *Walking with People in Poverty Program Review*. Prepared for Mennonite Central Committee Ontario. Centre for Community Based Research, Waterloo, Ontario.

Honours and Awards:

- University of Waterloo Women in Mathematics Mentorship Award (\$1000) 2026
- University of Waterloo Graduate Student Research Dissemination Award for [C2] (\$500) 2026
- University of Waterloo Graduate Scholarship (\$4000) 2025
- University of Waterloo President's Graduate Scholarship (\$10000) 2025
- NSERC Canadian Graduate Scholarship – Masters (\$27000) 2025
- Ontario Graduate Scholarship (\$15000) (Declined) 2025
- Undergraduate Research Fellowship Award (\$7500) 2024
- NSERC Undergraduate Student Research Award (\$6000) 2023, 2024
- Undergraduate Research Assistantship Award (\$1000) 2022, 2023, 2024
- University of Waterloo President's Research Award (\$1500) 2023
- Faculty of Mathematics Entrance Scholarship (\$10000) 2020
- University of Waterloo President's Scholarship of Distinction (\$2000) 2020

Research Experience:

Graduate Research Student @ Augmented Intelligence Lab, University of Waterloo

Supervised by [Dr. Edith Law](#)

September 2025 - Present, Waterloo, ON

- Designing and developing a platform for groups of artists to ideate, deliberate, and make decisions in a more participatory and decentralized manner
- Facilitated semi-structured interviews with artists from a variety of disciplines, analyzing 20+ hours of interview data using reflexive thematic analysis

Undergraduate Research Assistant @ Augmented Intelligence Lab, University of Waterloo

Supervised by [Dr. Edith Law](#)

October 2022 - August 2025 (Part-time), September - December 2023 (Full-time), Waterloo, ON

- Conducted and transcribed interviews, codified qualitative data using both inductive and deductive coding on NVivo for multiple research projects
- Analysed interview and focus group transcripts and quotes using qualitative methodologies (e.g. thematic analysis, affinity mapping) for inclusion in conference papers and stakeholder presentations
- Designed and developed multiple prototypes using Figma and modern web development frameworks for use in interview and field studies [C1] and [C2], following accessibility and responsive design guidelines

Undergraduate Research Fellow @ Augmented Intelligence Lab, University of Waterloo

Supervised by [Dr. Edith Law](#)

September 2024 - December 2024, Waterloo, ON

- Developed and designed the Newcomer App, a mobile application for newcomers to the Kitchener-Waterloo region to discover health and social services tailored towards their population part of [C2]
- Term funded for full-time work through both Undergraduate Research Fellowship and NSERC Undergraduate Research Student Assistant awards

Teaching Experience:

Graduate Teaching Assistant @ University of Waterloo

CS 349: User Interfaces (S26)

- Part of a team of TAs for an upper-level introduction to contemporary user interface implementation concepts in Typescript, HTML, and modern UI frameworks
- Marking assignments and exams; Hosting virtual office hours and responding to student queries; Setting up and proctoring exams

CS 383/FINE 383: Computational Digital Art Studio (W26)

- Sole TA for an upper-level studio course where both computer science and fine art students create and exhibit computational artwork made with p5.js and other web-based creative coding libraries
- Designed and conducted a workshop session on p5.js 2.0 and using Transformers.js in artworks; Marked technical aspect of artwork and presentations; Interacted with and gave feedback to students during studio

Workshop Facilitator @ University of Waterloo

Futures Lab: Learning Re-imagined (F25)

- Aided in facilitating the inaugural [Futures Lab](#) workshop series, an interdisciplinary AI+UX prototyping workshop led by Dr. Edith Law and sponsored by Google
- Conducted a session on the basics of UI design using Figma for 40+ participants, enabling students from both technical and non-technical disciplines to incorporate best design practices into their AI prototypes

Academic and Community Service:

Peer Reviewer

- CSCW (Posters): 2026

Event Host @ Graduate Student Association (Graduate House), University of Waterloo

June 2026 - Present

- Planned and hosted social events (e.g., Trivia Nights) at a graduate student-focused social space on campus

Graduate Student Mentor @ University of Waterloo

Women in Mathematics Directed Reading Program (W26)

- Topic: [Digital Civics and Community Engagement](#), project article [A1]
- *Mentees: Angela Li, Erin Walshaw, Alexandra Roszczenko*

CS 399: Early Research Experience Program (F25)

- Topic: Developing a task-agnostic platform for value-based deliberation
- *Mentees: Anne Zhang, Sabrina Fang, Jia Huang, Halle Chan*

Presentations and Talks:

Symposium Presentations

- [P1] *Technology-mediated Participatory Decision-Making for Artistic Creations*. HITL '26 (January 2026), Waterloo, ON ***Best Oral Presentation Award**

Professional Experience:

Student Intern @ Centre for Community Based Research

July 2025 - November 2025, Waterloo, ON

- Engaged in program evaluation for community-based organizations; conducting document reviews of social service programming for those experiencing homelessness and the prevention thereof
- Aided in notetaking and qualitative analysis of focus groups consisting of community members with lived experience, summarized in a research report [R1] for key organization stakeholders

UX Researcher @ theScore

May - August 2024, Toronto, ON

- Owned a research project from end-to-end on usage and satisfaction of promotions; informing product through knowledge sharing of pain points and areas of improvement for future quarters
- Introduced usage of machine learning methods for UX research in automated coding of open-ended survey responses through training scikit-learn models on prior mass survey data

UX/UI Designer @ WSIB Innovation Lab

January - April 2023, Kitchener, ON

- Led the creation of user research questions and moderator's guides; conducting semi-structured interviews to inform design decisions and ensure that systems meet usability standards
- Improved and iterated on Figma designs for a lab-wide project by creating 10+ prototyped components and named state variants in order to improve designer efficiency over multiple iterations

UX Designer @ Arctic Wolf

May - August 2022, Waterloo, ON

- Developed and led a UX research project, conducting semi-structured interviews and usability tests in order to improve user workflow and enhance an iterative design process
- Crafted accessible user interface elements and designs for various internal products, leveraging Figma components to standardize and improve designer efficiency and designer-developer handoff

Online Resource Designer and Developer @ University of Waterloo Library

September - December 2021, Waterloo, ON

- Developed custom and accessible [learning modules](#) using open source JavaScript and jQuery framework H5P for use in post-secondary education in information gathering and retrieval
- Designed and tested various modules and UI elements to meet both accessibility and visual standards; used Figma for storyboarding and HTML/CSS for developing