

# Y. Carolyn Wang

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## Education

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### DPhil Social Data Science

2026 - Present

*Oxford Internet Institute, University of Oxford (OX, UK)*

- Thesis: To be determined.
- Supervisor: Dr. Luc Rocher

### MMath Data Science

2024 - 2026

*Faculty of Mathematics, University of Waterloo (ON, Canada)*

- Thesis: AI in Mental Health: Clinician Perceptions and the Need for AI Literacy in Participatory Research. (*Accepted with no revisions*).
- Supervisors: Dr. Dan Brown & Dr. Maura Grossman
- CGPA: 4.0/4.0

### BMath (Hons.) Statistics, Computing Minor, Co-op Integrated Program

2018 - 2023

*Faculty of Mathematics, University of Waterloo (ON, Canada)*

- Class of 2023 Valedictorian

- Exchange program

Aug 2022 - Feb 2023

*Institute of Mathematics, École Polytechnique Fédérale de Lausanne (VD, Switzerland)*

- CGPA: 3.6/4.0

## Research Experience

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- **Graduate Researcher**, *University of Waterloo*

Sept 2024 - Aug 2026

- Conducted comprehensive literature review to identify gaps in existing literature.
- Defined research objectives, planned and scoped a study to investigate the research questions. Performing the planned experiment (in progress).
- Conducted a mixed-method study evaluating the effect of an educational intervention on mental health practitioners' perceptions of AI to examine the need for tech- and AI-literacy in participatory and cross-disciplinary research.

- **Research Assistant**, *AI4Abolition*

June 2024 - Present

- Working with a group of transformative justice (TJ) practitioners to investigate the possibilities at the intersection of TJ and technology, with an emphasis on artificial intelligence.
- Developed a value-aligned LLM evaluation protocol in collaboration with TJ facilitators.
- Drafted, published, and presented a paper documenting preliminary learnings from the LLM evaluation project at a conference workshop.
- Reviewed literature and assisted with data analysis on the current state of technology use in TJ practise and perceptions of TJ practitioners towards emerging technologies.
- Developed and co-led an AI literacy workshop for TJ practitioners.

- **Undergraduate Research Assistant**, *University of Waterloo*

Jan - Dec 2021

- Developed CNNs to inpaint medical vascularity scans from a novel imaging technology

and a preprocessing pipeline using deterministic interpolation methods.

- Worked on a project to determine risk factors for acute kidney injury using sex-specific models of kidney function.

## Teaching and Mentorship Experience

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- **Graduate Mentor**, *University of Waterloo, Directed Research Program* Jan 2026 - Present
  - Co-mentoring undergraduate students through a research creation project
  - Scoping, structuring, and performing preparatory literature review for a 10-week program with weekly meetings and asynchronous collaboration guiding mentees through the research process, beginning with a directed literature review through conceptualizing and executing the project.
- **Undergraduate & Graduate Teaching Assistant**, *University of Waterloo*
  - Databases Applications for Business (CS-338) - Spring 2025, Fall 2025
  - Social Implications of Computing (CS-492) - Winter 2025
  - Principles of Computing (CS-114) - Fall 2024
  - Statistics (STAT-231) - Fall 2020
- **Project Mentor**, *Measurement4Change, Food Bank of Waterloo* Jan 2025 - May 2025
  - Assisted with the development of a validation process to ensure food distribution efficacy to partner programs through the Measurement4Change program.

## Publications

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My name is in bold. \* denotes equal contributions.

1. **Wang, C.**, Grossman, M.R., & Brown, D.G. [*Redacted Title*]. Under review at CHI'27.
2. **Wang, C.**, & Epps, A. [*Redacted Title*]. In preparation.
3. **Wang, C.** (2025). *The Risks and Potential of Large Language Models in Mental Healthcare: A Critical Analysis through the Lens of Data Feminism*. (Un)Disturbed: A Journal of Feminist Voices, 2 (2): 41-52. <https://doi.org/10.15353/un-disturbed.v2i2.6652>
4. **Wang, C.**, Epps, A., Ferrari, T., & Ames, R. (2025). *AI for Abolition? A Participatory Design Approach*. Proceedings of Workshops at the Fourth International Conference on Hybrid Human-Artificial Intelligence (HHAI), Pisa, Italy, June 9–13, 2025. <https://ceur-ws.org/Vol-4074/paper7-2.pdf>
5. Leete, J., **Wang, C.**, López-Hernández, F. J., & Layton, A. T. (2022). *Determining risk factors for triple whammy acute kidney injury*. Mathematical Biosciences, 347, 108809. <https://doi.org/10.1016/j.mbs.2022.108809>

## Academic Presentations

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- **Wang, C.**, Grossman, M., & Brown, D. (2025). *AI for Mental Health: Clinician Perceptions and the Need for AI Literacy in Participatory Research* 2025 Responsible AI Summer Institute. Toronto, Ontario, Canada, May 14, 2026. Poster presentation.

- **Wang, C.**, Grossman, M., & Brown, D. (2025). *AI for Mental Health: Clinician Perceptions and the Need for AI Literacy in Participatory Research* 2025 Responsible AI Summer Institute. Toronto, Ontario, Canada, May 14, 2026. 3 Minute Thesis talk.
- **Wang, C.**, Grossman, M., & Brown, D. (2025). *Measuring LLM Bias in Mental Health*. 2025 ACM Conference on Knowledge Discovery and Data Mining. Toronto, Ontario, Canada, August 5, 2025. Poster presentation.
- **Wang, C.**, Grossman, M., & Brown, D. (2025). *Measuring LLM Bias in Mental Health*. ACM Conference on Knowledge Discovery and Data Mining 2025. Toronto, Ontario, Canada, August 5, 2025. 3 Minute Thesis talk.
- Ferrari, T., Epps, A., Ames, R., & **Wang, C.** (2025). *Participatory AI Research and Development to Support Transformative Approaches to Justice and Community Safety*. ACM Collective Intelligence Conference 2025, La Jolla, CA, USA, August 4, 2025. Poster presentation.
- **Wang, C.**, Epps, A., Ferrari, T., Ames, R. (2025). *AI for Abolition? A Participatory Design Approach*. Mind the AI-Gap Workshop at the Hybrid Human Artificial Intelligence Conference 2025, Pisa, Italy, June 9, 2025. **Oral Presentation.**

## Skills and Qualifications

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**Programming Languages:** Python, R, HTML/CSS, SQL, L<sup>A</sup>T<sub>E</sub>X

**APIs & Packages:** PyTorch, Tensorflow, Pandas, Numpy, Anthropic, OpenAI, Matplotlib, Keras, SKLearn, Seaborn, Gensim, Scipy

**Selected coursework:** Data Analysis, Experimental Design, Data Structures, Computational Statistics, Databases, Data Engineering, Forecasting, Deep Neural Networks.

*Graduate Seminar Courses:* Natural Language Processing & Generative AI, Human Computer Interaction — Designing Value-Driven Technology, Affective Computing

## Awards

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|--------------------------------------------------------------------------|-------------|
| • University of Waterloo Women in Mathematics Mentorship Award (\$1000)  | 2026        |
| • University of Waterloo Master of Data Science Award (\$3455)           | 2026        |
| • University of Waterloo Graduate Scholarship (\$400)                    | 2026        |
| • University of Waterloo Domestic Graduate Student Award (\$3000)        | 2024 - 2026 |
| • Vector Institute Scholarship in Artificial Intelligence (\$17,500)     | 2024 - 2025 |
| • University of Waterloo International Travel Award (\$1000)             | 2023        |
| • NSERC Undergraduate Student Research Award (\$6000)                    | 2022        |
| • University of Waterloo President's Research Award (\$3000)             | 2021        |
| • University of Waterloo President's Scholarship of Distinction (\$2000) | 2019        |
| • First place in the International Mathematical Competitive Game (€500)  | 2019        |

- Professional Institute Legacy Foundation Scholarship (\$1500) 2018
- Ottawa Kiwanis Club Rick Barrigar Scholarship for Exemplary Citizenship (\$3000) 2018

## Invited Talks & Guest Lectures

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- "AI for Mental Health: Clinician Perceptions and the Need for AI Literacy in Participatory Research." Guest Lecture: Toronto Metropolitan University, ELE900. July 15, 2026, virtual.
- "AI for Mental Health: Clinician Perceptions and the Need for AI Literacy in Participatory Research." NSERC Responsible AI Group. March 20, 2026, virtual.
- "Introduction to Product Ideation." Technovation Waterloo 2025. January 29, 2025, virtual.

## Service & Volunteer Work

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- University of Waterloo Women in Computer Science Graduate Student Representative Sept 2025 - Aug 2026
- Virtual Student Life Panel March 26, 2026  
Panelist, *event for incoming graduate students at the University of Waterloo*
- Technovation Mini-Hackathon, *outreach program for girls in tech* November 29, 2025  
Volunteer, *coaching participants, judging final projects, and assisting with event logistics*
- Graduate Visit Day March 3, 2025  
Panelist *event for incoming graduate students at the University of Waterloo*
- Technovation Waterloo, *outreach program for girls in tech* Jan 2025 - Feb 2025  
Mentor, *advising participants on HCI methods for project development*
- University of Waterloo Awards Committee Sept 2024 - Sept 2025  
Graduate Student Representative.
- University of Waterloo Undergraduate Mathematics Society
  - Vice President of Internal Affairs Jan 2022 - Apr 2022
  - First Year Mentor & Orientation Leader Sept 2019 - Dec 2020
  - Events Director Jan 2019 - Sept 2019

## Relevant Industry Experience

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- **Data Science Intern, Noom Inc.** New York City, NY — May - Aug 2022
  - Prototyped a recommendation model (sklearn) for unhealthy food alternatives using Word2Vec food embeddings (gensim) using over 2 million rows of text data (SQL)
  - Planned, spearheaded, and executed a segmentation project to identify user personas, and areas for further product development/experimentation (SQL, Python - sklearn)
  - Conducted analyses and visualizations of user behaviour by querying and analyzing 1,000,000+ rows of user data

- **Data Engineering Intern, Innovapost, Inc.** Remote — May - Aug 2020
  - Implemented ETL pipeline to extract data from XML files in PySpark
  - Oversaw production of and presented proof of concept for crowdsourced application delivery to senior business leaders
- **Data Analyst Intern, Cineplex Ltd.** Waterloo, ON — Sept - Dec 2019
  - Forecasted sales with time series model (R) for ROI validation on data-driven initiatives
  - Collaborated on algorithm design for a recommendation engine using various machine learning techniques to target advertisements more effectively