

Christina Fan

Honours Bachelor of
Science in Psychology,
Neuroscience Minor

1703-25 Bay Mills Blvd
Toronto, ON, M1T 3P4

Email: c24fan@uwaterloo.ca GitHub: <https://github.com/christinaf075>

Academic Website: <https://christinaf075.github.io>

LinkedIn: www.linkedin.com/in/christina-fan-9418b9277

Education

University of Waterloo

Bachelor of Science, Psychology, Honours, Minor in Neuroscience

Sept. 2023 - April 2027

Research Experience

University of Waterloo, Department of Psychology, Face Processing and Social Cognition Lab / Research Student

Jan. 2026 - Present, Waterloo

PI: Dr. Roxane Itier

- Run independent weekly electroencephalography (EEG) sessions examining neural and behavioral responses to emotional facial expressions and attentional processes
- Perform EEG and eye-tracking (Eyelink) setup, data collection, and analysis
- Create experiment facial stimuli using GNU Image Manipulation Program (GIMP) and MATLAB

University of Waterloo, Department of Optometry, Human Visual Neuroscience Lab / Research Assistant

Sept. 2025 - Present, Waterloo

PI: Dr. Ben Thompson

- Run independent weekly sessions of a Rapid Serial Visual Presentation (RSVP) study administering transcranial direct current stimulation (tDCS) to patients with visual impairments to explore effects on reading accuracy
- Assist with functional near-infrared spectroscopy (fNIRS) study examining effects of tDCS on neural activity
- Perform tDCS and psychophysical data collection and analysis

University of Waterloo, Department of Kinesiology and Health Sciences, Multisensory Brain and Cognition Lab / Research Assistant

Sept. 2025 - Present, Waterloo

PI: Dr. Michael Barnett-Cowan

- Assist with Transcranial Magnetic Stimulation (TMS) administration on older adults for a study exploring changes in

audiovisual integration during aging

- Participant recruitment, data coding, and statistical analyses

University of Waterloo, Department of Psychology, Psychological Intervention Research Team / Research Assistant

May 2025- Present, Remote

PI: Dr. Jonathan Oakman

- Coded 400+ clinical therapy session segmentations
- Attend weekly meetings to discuss therapeutic ratings
- Apply pre-established rating anchors to sessions

University of California, Berkeley, Department of Psychology, Berkeley Early Learning Lab / Research Assistant

May 2025- July 2025, Remote

PI: Dr. Fei Xu

- Study material preparation, participant recruitment, and testing
- Coded 100+ baby eye-gaze data videos using LookIt and Datavyu software
- Participate and present at weekly lab meetings and journal clubs

University of Waterloo, Department of Psychology, Cognition and Natural Behavior Laboratory / Research Assistant

Oct. 2024- Dec. 2025, Waterloo

PI: Dr. Evan Risko

- Scheduled and ran 40+ study sessions independently using SONA
- Performed data collection and coding for five large datasets
- Attended weekly literature review and technical lab meetings

Posters and Presentations

Viquar U., **Fan, C.**, Perrier M., Graham K., Vaart J., Meehan S., Barnett-Cowan M. “Cortical mechanisms underlying audiovisual integration in healthy aging: A TMS study”. Lake Ontario Visionary Establishment (LOVE) Conference, Feb. 2026 (Niagara Falls, ON, Canada)

Fan, C., Huynh, E., Qin, E., Zaman, F., Siddique, A.B. “Effects of Increasing Taxol Production for Cancer Treatment”. Fusion Conference 2025, University of Waterloo, Nov. 2025 (Waterloo, ON, Canada)

Fan, C., Gravestock, J., Cisorio, D. “Impact of Word Tangibility on the Effectiveness of Different Mnemonics”. Social Science Advanced Research Methods Seminar Presentation, University of Waterloo, Dec. 2025 (Waterloo, ON, Canada)

Technical Skills

Programming Languages and Tools: Python, R, Bash, Git

Data Analysis Programs: Jamovi, Excel

Experiment Programming: Qualtrics, PsychoPy, Psytoolkit

Neuroimaging/Neuromodulation Techniques and Apparatus:
transcranial magnetic current stimulation (tDCS), transcranial magnetic stimulation (TMS), Electroencephalography (EEG), functional near-infrared spectroscopy (fNIRS), EyeLink eye-tracking system

Volunteer Experience and Extra-Curriculars

Waterloo Regional Health Network/ Hospital Elder Life Program
Volunteer

Jan. 2026 - Present, Waterloo

- Weekly shifts delivering standardized cognitive interventions to patients experiencing delirium or cognitive impairment
- Monitor and chart patient symptoms and interactions to update care plans for individual needs
- Collaborate with healthcare staff to provide dietary, physical, and cognitive support to patients while adhering to hospital standards

LabPath Research Hackathon/ Researcher

July 2025, Mississauga

- Participated in a one-day hackathon to produce a research proposal submitted for consideration by the *Undergraduate Research in Natural and Clinical Sciences and Technology (URNCST) Journal*
- Led a team project to conduct literature reviews on the use of AI technology in clinical care
- Propose an innovative machine learning model to evaluate biomedical data

Toronto Public Library / Leading to Reading Program Volunteer

July 2019 - Present, Toronto

- Tutor children in grades 1-6 with literacy difficulty
- Plan weekly reading comprehension, writing exercises, and literacy games
- Monitor and record child progress, assign homework

University of Waterloo, Psychology Society / Retail Director

June 2024 - July 2025, Waterloo

- Manage inventory and finances of retail and merchandise
- Train and schedule volunteers for shifts on campus Tuck Shop
- Maintain order and cleanliness of Tuck Shop

University of Waterloo, Department of Psychology / Early Childhood Education Center Volunteer

Jan. 2024 - Apr. 2024, Waterloo

- Supervise children in daycare settings
 - Support staff with children's needs and administrative tasks
 - Assist with department developmental research as needed
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Awards

University of Waterloo/ Term Distinction

Jan. 2024 - Jan. 2026

Service Ontario/ Ontario Volunteer Service Award

Nov. 2023

University of Waterloo/ President's Scholarship

Sept. 2023

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Certifications

MoCA Cognition/ Montreal Cognitive Assessment Administration

Dec. 2025

IBM/ Data Analysis with Python

Jun. 2025

CITI Program/ Health Canada Division 5 - Drugs for Clinical Trials Involving Human Subjects - Students

Jun. 2025

CITI Program/ Good Clinical Practice (GCP) - Canada - Students

Jun. 2025

Government of Canada/ Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (TCPS 2: CORE 2022)

Jul. 2024

University of Waterloo/ WHMIS 2015

Sept. 2023