



# Emma Bainbridge

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## + work experience

**University of Washington** · Center on Human Development and Disability  
*Research Associate*

05/2025– | Seattle, US

- Characterizing the **neural basis of superior functioning in autism** across all stages of adolescence using qMRI.

**University of Toronto** · Sunnybrook Health Sciences Centre  
*Research Fellow*

09/2024–05/2025 | Toronto, Canada

- Calibrated optical position-tracking devices to improve head-motion correction in MR neuroimaging.
- Analyzed fMRI datasets from **long-COVID clinical trials** to assess functional and structural connectivity changes.

**Government of Québec** · University Health & Social Services  
*Senior Research Coordinator*

09/2022–09/2024 | Montréal, Canada

- Substantiated partnerships with internal (allied health professionals, patients) and external (ministerial policy-makers) stakeholders to assist deployment of **patient-reported outcome measures** across municipal oncology clinics.

**McGill University Health Centre** · Montréal Children's Hospital  
*Clinical Research Coordinator III*

09/2021–09/2022 | Montréal, Canada

- Managed all aspects of Health Canada–regulated clinical trials (execution, data analysis, reporting, sponsor oversight).
- Aided in the development and implementation of a diagnostic care pathway for rapid and accurate treatment of febrile infants in network EDs.
- Spearheaded the transition from a legacy data warehouse to SQL server to accelerate harmonized EMR reporting, saving cross-team clinical workflows 10h/week.

**Atlantic Cancer Research Institute**  
*Bioinformatics Intern*

05/2021–09/2021 | Moncton, Canada

- Maintained next-generation RNA sequencing pipelines for high-throughput production analysis.
- Performed differential expression analyses (bioconductor, edgeR, dorfinger) to identify targetable sequences in HER-2 breast cancer.

## + education

**McGill University** · Faculty of Medicine  
*B.Sc. in Pharmacology and Therapeutics*  
Multidisciplinary Undergraduate Research List

09/2017–05/2021 | Montréal, Canada

## + academic research & teaching

**McGill University** · Office of Science Education  
*Research Assistant — PHYS101 & PHYS102*

01/2020–05/2021 | Montréal, Canada

- Assessed course-activity effectiveness, identified topic-related misconceptions, and applied innovative teaching and learning strategies in undergraduate mechanics.
- Culminated findings in an undergraduate thesis titled *Student Learning in Undergraduate Physics*.

**McGill University** · Department of Physics  
*Teaching Assistant — PHYS141 & PHYS142*

01/2019–05/2021 | Montréal, Canada

- Contributed to implementing a flipped-classroom environment; introduced first-year undergraduates to inquiry-based learning and self-generative knowledge tactics; led tutorials and problem-solving sessions.

## + skills

**Computational:** R, Python, Bash, SQL

**Analytical:** MR neuroimaging (AFNI, SPM, PyMOL), bioinformatics (BLAST, SciPy), statistics (SPSS, Stata), EHR systems (MEDITECH, Telus Health, REDCap)

**Languages:** English (native), French (fluent)

## + publications

**Bainbridge, E.,** MacCabe, D., Seppala, J., Van Leer, E. *Cannabis and the Gastrointestinal Tract: Utilization of Social Media as an Educational Platform in Gastroenterology.* Under Review, *Memorial University Medical Journal*

## + clinical certifications

**Clinical Research Coordinators of Canada**

*Professional Certification*

Canada

**ICH E6 (R2) Good Clinical Practice**

*Advanced Certification*

Canada, US

**MR Safety**

*Level II*

Canada, US

**Standard Operating Procedures (SOP)**

*Level II*

Canada, US

## + ask me about

**Automated Brain Segmentation**

*Personal Project*

03/2026– | Seattle, US

- Co-developing a multi-atlas, bias-corrected deep learning model for segmenting neurodegenerative brains with minimal reliance on ground truth labels.

**Community Health and Wellness**

*Race Coordination*

09/2025– | Seattle, US

- Participating and supporting logistics in 5K/10K/half marathon running fundraisers for clinical research initiatives, including Run of Hope (Pediatric Brain Cancer Fund at Seattle Children's Hospital), Miles for Melanoma, Run Against Breast Cancer, and Seattle Marathon (UW Medicine).

**Naturally Leavened Bread**

*Hobbyist*

12/2024– | Seattle, US

**Montréal Chess Club**

*Player*

08/2020– | Montréal, Canada