



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, dfinder) 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