

Katherine Ullrich

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Education

Molecular Biology and Genetics Coop (BSc), Research Specialization Dec. 2020 - Present
McMaster University, Hamilton, ON Exp. Graduation April 2025

- Completed WHMIS, Biosafety, and Animal Ethics Training
- Laboratory skills include DNA extraction, PCR, and agarose gel electrophoresis

Honours Thesis Student Sept. 2023 – Present
Little Lab, McMaster University, Hamilton, ON

- Responsible for zebrafish feeding, husbandry, genotyping, and general care
- Completed larval behavioral assays, including thigmotaxis and startle response, to model SETBP1-Haploinsufficiency Disorder in *Danio rerio*
- Completed statistical analysis of assays using R code
- Presented results at the *2024 Biology Undergraduate Symposium* at McMaster University and *Ontario Biology Day 2024* at Toronto Metropolitan University

Relevant Work Experience

DAAD RISE-Globalink Research Intern May 2024 - Present
Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany

- Completing adult behavioral assays on zebrafish, including object permanence and detour tests, to assess collective cognition in response to size-selection
- German Academic Exchange Service (DAAD) and Mitacs scholarship recipient

Research Student in Molecular Medicine Jan. 2023 - Aug. 2023
SickKids Hospital, Toronto, ON

- Consented over 200 participants into the CALIPER clinical research study
- Processed blood samples, conducting biochemical analysis on platforms Alinity chemistry, immunoassay, and hematology
- Used R Studio code to establish direct and indirect pediatric reference intervals
- Focused on laboratory biomarkers of blood coagulation, presenting progress at the *2023 Conference for Undergraduate Health Research* at York University

Awards

McMaster Biology Honour Roll	2020 - Present
DAAD RISE-Globalink Scholarship	2024
McMaster Science Career Expo Certificate of Recognition	2023
Camp Ojibway Four Winds Award	2022
McMaster Honour Award Entrance Scholarship	2020

Extracurriculars

Canadian Cancer Society Relay for Life Executive - Outreach Coordinator
McMaster Competitive Lifeguard Team
McMaster Science Society Welcome Week Representative