Regan Campbell

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EDUCATION

MSc in Neuroscience University of British Columbia, Cembrowski Laboratory	September 2022 – Present	
BSc (Honours) with High Distinction University of Toronto cGPA: 3.93/4.0 Specialization: Neuroscience Minor: Applied Statistics Thesis in Neuroscience: The Role of the Dorsal Hippocampus in 7	2018 – 2022 Timing Behaviour	
RESEARCH EXPERIENCE		
MSc Student, University of British Columbia PI: Dr. Mark Cembrowski	2022 – Present	
Combining computational modeling of neuron biophysics and multi-photon calcium imaging to investigate cell-type specific dendritic computations.		
Thesis Student, University of Toronto Scarborough	2021 - 2022	
PI: Dr. Rutsuko Ito Led a project examining the role of the rat dorsal hippocampus in temporal decision making via chemogenetics, behavioural testing, data modelling in MATLAB, statistical analyses in R, and immunohistochemistry.		
Research Assistant , University of Toronto PI: Dr. Katherine Duncan	2021	
Administered study sessions via Prolific and tested R scripts for an online pilot memory study examining human memory reactivation and item recall precision.		
Research Assistant , University of Toronto Scarborough PI: Dr. Rutsuko Ito	2019 - 2021	
Conducted operant and Pavlovian behavioural tests with rats examining (1) the involvement of the entorhinal cortex and ventral hippocampus in temporal duration memory and (2) the medial prefrontal cortex to hippocampus circuitry in cued approach-avoidance conflict.		
Research Assistant , University of Toronto	2019	
PI: Dr. Gillian Einstein Scored neuropsychological assessments of cognition and memory ovarian removal on cognitive health.	to examine the impacts of	

HONORS AND AWARDS

Faculty of Medicine Graduate Award, University of British Columbia (\$4000) Awarded to support students in the Graduate Program in Neuroscience.	2022
CIHR Canada Graduate Scholarships – Master's (\$17500) Awarded by the Canadian Institutes of Health Research to provide "financial support high-calibre scholars".	2022 to
Allen Institute Modeling Software Workshop Travel Award (\$1000)2022Selected to attend with travel support based on previous research experience, qualifications, and proposed research project.	
Best Poster Award – NeuroXChange Undergraduate Neuroscience Conference <i>Awarded at a Canada-wide undergraduate research conference.</i>	2022
University of Toronto Scarborough Dean's List2018Awarded to students who have achieved a cumulative GPA of 3.5 or higher.2018	- 2022
Budding Scholars Research Extension Award (\$1500)2020A research award open to current budding scholars, aimed to support a research project with a faculty member. Awarded based on academic performance and research potential.2020	
Budding Scholars Award2019A program for aspiring professionals in the field of psychology or neuroscience. Acceptanceis based on academic excellence in Psychology and drive to pursue research.	
University of Toronto Entrance Scholarship (\$2000)	2018

PUBLICATIONS

1. Kinman, A.I., Erwin, S.R., Merryweather, D.N., **Campbell, R.E.**, Kraus, L., Sullivan, K.E., ... Cembrowski, M.S. (2023). Atypical excitatory neurons of the hippocampus represent novelty and toggle novelty seeking. *Science*, submitted.

POSTER PRESENTATIONS

1. **Campbell, R.E.**, Merryweather, D., Elder, M., Bristow, M., Kraus, L., Cembrowski, M.S. (2023). "Unique intrinsic properties shaping the cellular computations of a novel excitatory cell type in the subiculum". Canadian Association for Neuroscience Meeting, Canada. *National.*

2. **Campbell, R.E.**, Cembrowski, M.S. (2023). "Cell type specific information processing in the subiculum: how morphology shapes computation". Cellular and Physiological Sciences Departmental Research Retreat, UBC, Canada. *Institutional*.

3. <u>Campbell, R.E.</u>, Zhemeng, W., Çavdaroğlu, B., Ito, R. (2022). "The Role of the Dorsal Hippocampus in Timing in the Presence of Motivational Conflict". NeuroXChange Undergraduate Neuroscience Conference, Canada. *National*. Awarded "best poster presentation".

WORKSHOPS ATTENDED

Allen Institute Modeling Software Workshop201Selected on the basis of experience and qualifications, supported by a travel award (\$1000	
TEACHING EXPERIENCE	
Vice-President of Academic Affairs/Director of Scientific Outreach2020 – 2020SYNAPSE, University of Toronto - ScarboroughCurated and hosted exam review sessions for second- and third-year neuroscience courses	
EXTRACIRRICULAR ACTIVITIES & VOLUNTEERING	
Member – Women and Gender-diverse Mathematicians20The University of British ColumbiaInvolved in organizing colloquia and lunches to provide resources, support, and networkin opportunities for women and gender-diverse mathematicians.)23 1g
Brain Bee Volunteer20Vancouver Brain Bee20Assisted with participant sign-in, invigilated the written exam, and provided a lab tour with demos/explanations of equipment/experiments used.	-
Vice-President of Academic Affairs2021 - 20SYNAPSE University of Toronto - ScarboroughDeveloped the Academic Affairs department, curated initiatives, and organized events to provide undergraduates with mentorship and academic development opportunities.	22
Director of Scientific Outreach SYNAPSE, University of Toronto - Scarborough <i>Researched, critically evaluated, and summarized relevant and recent neuroscience resear</i> <i>to present via social media posts and hosted academic panels.</i>	
Academic Study Group Executive20Psychological Health Society, University of Toronto - Scarborough20Curated and hosted study groups for a third-year neuroscience course.20)20