

Dylan J. Terstege, Ph.D.

Aix-Marseille Université, INSERM, INMED U1249, Marseille, France

Personal Information

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ORCID: [0000-0002-5903-0875](https://orcid.org/0000-0002-5903-0875)

Date of Birth: February 15, 1996

Nationality: Canadian

URL for web site: <https://dterstege.github.io>

Current Position

Postdoctoral Research Fellow

Aix-Marseille Université, INSERM, INMED, Marseille, France (11/2025 – Present)

Supervisor: Dr. Rosa Cossart

Education & Research Experience

Postdoctoral Associate

Department of Cell Biology and Anatomy, Cumming School of Medicine

University of Calgary, Calgary, Alberta, Canada (03/2025 – 10/2025)

Supervisor: Dr. Jonathan Epp

Ph.D. Neuroscience

Faculty of Graduate Studies, Graduate Program in Neuroscience

University of Calgary, Calgary, Alberta, Canada (09/2020 – 01/2025)

Hotchkiss Brain Institute PhD Researcher of the Year - 2022

Supervisor: Dr. Jonathan Epp

Thesis: *The Vulnerability and Resiliency of the Retrosplenial Cortex in Alzheimer's Disease.*

Thesis awarded the 2024/2025 Governor General's Gold Medal

Date of Successful PhD Defence: January 17, 2025

Date of Degree Convocation: June 3, 2025

M.Sc. Neuroscience

Faculty of Graduate Studies, Graduate Program in Neuroscience

University of Calgary, Calgary, Alberta, Canada (09/2018 – Transferred to Doctoral Program 09/2020)

Supervisor: Dr. Jonathan Epp

B.Sc. Biology and Honours Psychology

University of Prince Edward Island, Charlottetown, PE, Canada (09/2014 – 05/2018)

Honours Supervisors: Dr. Catherine Ryan & Dr. Tracey Doucette

Thesis: *Turning the Zebrafish Black-White Test on its Side: Evaluating the Relative Preferences of Black Compartments and Low Water Column Position.*

Date of Successful Honours Defence: August 7, 2018

Date of Degree Convocation: May 12, 2018

Current Grants

Grant	Title	Role	Period	Amount
<i>Alzheimer Society Research Program (ASRP) – Proof of Concept Grant</i>	Targeting Neuronal GFAP in Alzheimer's Disease	Co-PI	2025-27	\$100,000
<i>Women's Brain Health Initiative in Partnership with the Brain Canada Foundation – Team Grant</i>	Functional Connectivity and Cognitive Decline in a Mouse Model of Alzheimer's Disease	Investigator	2022-26	\$105,000

Awards and Honours (Graduate Awards: \$197,117; Undergraduate Awards: \$15,000)

Award	Granting Agency	Level	Date	Amount
<i>Governor General's Gold Medal (2024/25)</i>	University of Calgary	Institutional	2025	N/A
<i>Arun Anbazhagen Travel Award</i>	Hotchkiss Brain Institute	Institutional	2023	\$1,000
<i>HBI Award for Excellence in Brain and Mental Health Research</i>	Hotchkiss Brain Institute	Institutional	2023	\$2,000
<i>HBI Research Day Best Poster Award</i>	Hotchkiss Brain Institute	Institutional	2023	\$200
<i>PhD Researcher of the Year (2022)</i>	Hotchkiss Brain Institute	Institutional	2023	N/A
<i>NSERC Canada Graduate Scholarship - Doctoral</i>	Natural Sciences and Engineering Research Council of Canada	National	2022-25	\$105,000
<i>Alzheimer's Society Research Program – Doctoral Award</i>	Alzheimer Society of Canada	National	2022-25	\$66,000 (Declined)
<i>Keith Sharkey Travel Award</i>	Hotchkiss Brain Institute	Institutional	2022	\$500
<i>Canadian Open Neuroscience Platform – Scholar Award</i>	Brain Canada	National	2021-22	\$10,417
<i>Canadian Open Neuroscience Platform – Scholar Award</i>	Brain Canada	National	2021	\$12,500
<i>Academic Entrance Scholarship</i>	University of Prince Edward Island	Institutional	2014-18	\$8,000
<i>Leaders of Tomorrow Award</i>	University of Prince Edward Island	Institutional	2014	\$2,000
<i>TR and Chandra Sahajpal Scholarship</i>	University of Prince Edward Island	Institutional	2014	\$5,000

Publications (20 Total; 16 First Author; 2 Corresponding Author; 348 Citations; *h*-index: 11)

Barnard, I.L., McElroy, D.L., Young, K.M., **Terstege, D.J.**, Glass, A.E., Epp, J.R., Botterill, J.J., Howland, J.G. (2025). Activity of CaMKII-expressing neurons in medial prefrontal cortex of male and female Long Evans rats is necessary for encoding odor information and novelty recognition in an odor-based incidental memory test. *Cerebral Cortex*. 35(8), bhaf203.
<https://doi.org/10.1093/cercor/bhaf203>

Citations: 1

O'Neill, O.S.*, **Terstege, D.J.***, Gill, A.K., Edge-Partington, M., Ramkumar, R., Epp, J.R., Sargin, D. (2025). An open-source rodent limited bedding and nesting apparatus for chronic early life stress. *eNeuro*. ENEURO.0081-25.2025.
<https://doi.org/10.1523/ENEURO.0081-25.2025>

* indicates co-first author(s)

Citations: 1

Terstege, D.J., Ren, Y., Ahn, B.Y., Seo, H., Adigun, K., Alzheimer's Disease Neuroimaging Initiative, Galea, L.A.M., Sargin, D., Epp, J.R. (2025). Impaired parvalbumin interneurons in the retrosplenial cortex as the cause of sex-dependent vulnerability in Alzheimer's disease. *Science Advances*. 11(18), eadt8976.
<https://doi.org/10.1126/sciadv.adt8976>

Citations: 6

Terstege, D.J., Jabeen, S., Alzheimer's Disease Neuroimaging Initiative, Galea, L.A.M., Epp, J.R., Sargin, D. (2025). SSRIs reduce plasma tau and restore dorsal raphe metabolism in Alzheimer's disease. *Alzheimer's & Dementia*. 21(2), e14579.
<https://doi.org/10.1002/alz.14579>

Citations: 5

Terstege, D.J., Alzheimer's Disease Neuroimaging Initiative, Galea, L.A.M., Epp, J.R. (2024). Retrosplenial hypometabolism precedes the conversion from mild cognitive impairment to Alzheimer's disease. *Alzheimer's & Dementia*. 20(12), 8979-8986.
<https://doi.org/10.1002/alz.14258>

Citations: 9

Terstege, D.J., Goonetilleke, D., Barha, C.K., Epp, J.R. (2024). Running-induced neurogenesis reduces CA1 perineuronal net density without substantial temporal delay. *Molecular Brain*. 17, 64.
<https://doi.org/10.1186/s13041-024-01138-x>

Citations: 2

Ramkumar, R., Edge-Partington, M., **Terstege, D.J.**, Adigun, K., Ren, Y., Khan, N.S., Rouhi, N., Jamani, N.F., Tsutsui, M., Epp, J.R., Sargin, D. (2024). Long-term impact of early life stress on serotonin connectivity. *Biological Psychiatry*. 96(4), 287-299.
<https://doi.org/10.1016/j.biopsych.2024.01.024>

Citations: 14

Terstege, D.J., Epp, J.R. (2024). PAW, a cost-effective and open-source alternative to commercial rodent running wheels. *HardwareX*. 17, e00499
<https://doi.org/10.1016/j.ohx.2023.e00499>

Corresponding Author.

Citations: 5

- Terstege, D.J.**, Dawson, M., Jamani, N.F., Tsutsui, M., Epp, J.R., Sargin, D. (2023). Protocol for the integration of fiber photometry and social behavior in rodent models. *STAR Protocols*. 4(4), 102689.
<https://doi.org/10.1016/j.xpro.2023.102689>
Co-Corresponding Author.
Citations: 6
- Terstege, D.J.**, Epp, J.R. (2023). Parvalbumin as a sex-specific target in Alzheimer's disease research – A mini-review. *Neuroscience & Biobehavioral Reviews*. 153, 105370.
<https://doi.org/10.1016/j.neubiorev.2023.105370>
Citations: 13
- Dawson, M., **Terstege, D.J.**, Jamani, N., Pavlov, D., Tsutsui, M., Bugescu, R., Epp, J.R., Leininger, G.M., Sargin, D. (2023). Sex-dependent roles of hypocretin/orexin neurons in social behavior. *Cell Reports*. 42(7), 112815.
<https://doi.org/10.1016/j.celrep.2023.112815>
Citations: 27
- Terstege, D.J.**, Epp, J.R. (2022). Network neuroscience untethered: brain-wide immediate early gene expression for the analysis of functional connectivity in freely behaving animals. *Biology*. 12(1), 34.
<https://doi.org/10.3390/biology12010034>
Citations: 15
- Moretti, J. *, **Terstege, D.J.***, Poh, E.Z., Epp, J.R., Rodger, J. (2022). Low intensity repetitive transcranial magnetic stimulation modulates brain-wide functional connectivity to promote anti-correlated c-Fos expression. *Scientific Reports*. 12: 20571
<https://doi.org/10.1038/s41598-022-24934-8>
* indicates co-first author(s)
Citations: 39
- Terstege, D.J.**, Durante, I.M., Epp, J.R. (2022). Brain-wide neuronal activation and functional connectivity are modulated by prior exposure to repetitive learning episodes. *Frontiers in Behavioral Neuroscience*. 16: 907707
<https://doi.org/10.3389/fnbeh.2022.907707>
Citations: 14
- Terstege, D.J.**, Addo-Osafo, K., Teskey, G.C., Epp, J.R. (2022). New neurons in old brains: a cautionary tale for the analysis of neurogenesis in post-mortem tissue. *Molecular Brain*. 15(38).
<https://doi.org/10.1186/s13041-022-00926-7>
Citations: 29
- Evans, A. *, **Terstege, D.J.***, Scott, G.A., Tsutsui, M., Epp, J.R. (2022). Neurogenesis mediated plasticity is associated with reduced neuronal activity in CA1 during context fear memory retrieval. *Scientific Reports*. 12: 7016
<https://doi.org/10.1038/s41598-022-10947-w>
* indicates co-first author(s)
Citations: 27
- Terstege, D.J.**, Oboh, D.O., Epp, J.R. (2022). FASTMAP: Open-source flexible atlas segmentation tool for multi-area processing of biological images. *eNeuro*. 9(2): ENEURO.0325-21.2022
<https://doi.org/10.1523/ENEURO.0325-21.2022>
Citations: 16

- Scott, G.A., **Terstege, D.J.**, Roebuck, A.J., Gorzo, K.A., Vu, A.P., Howland, J.G., Epp, J.R. (2021). Adult neurogenesis mediated forgetting of multiple types of memory in the rat. *Molecular Brain*. 14: 97
<https://doi.org/10.1186/s13041-021-00808-4>
 Citations: 43
- Terstege, D.J.**, MacDonald, D.S., Tasker, R.A. (2021). Standardised ginseng extract G115® potentiates the antidepressant-like properties of fluoxetine in the forced swim test. *Acta Neuropsychiatrica*. 33(3) 141-147
<https://doi.org/10.1017/neu.2021.2>
 Citations: 9
- Scott, G.A.*, **Terstege, D.J.***, Vu, A.P.*, Law, S., Evans, A., Epp, J.R. (2020). Disrupted neurogenesis in germ-free mice: Effects of age and sex. *Frontiers in cell and developmental biology*. 8: 407
<https://doi.org/10.3389/fcell.2020.00407>
 * indicates co-first author(s)
 Citations: 67

Manuscripts Under Review (4 Total; 1 First Author)

- Terstege, D.J.**, Epp, J.R. (2025). Cognitive enrichment preserves retrosplenial parvalbumin density and cognitive function in female 5xFAD mice. *Journal of Neuroscience*.
 BioRxiv link: <https://doi.org/10.1101/2025.01.15.633249>
 Citations: 1
- Seo, H., **Terstege, D.J.**, Ren, Y., Liu, S., Goring, K.R., Ahn, B.Y., Epp, J.R. (2025). Dual platform spatial transcriptomics reveals metagenes associated with vulnerable parvalbumin interneurons in female 5xFAD mice. *Nature Communications*.
- Khoshbaf Khiabani, N., **Terstege, D.J.**, Xu, S.C., Ahn, B.Y., Seo, H., Sargin, D., Epp, J.R. (2025). Inhibitory circuit compensations in female and male mice: increased synaptic output offsets reduced parvalbumin interneuron density. *Progress in Neurobiology*.
 BioRxiv link: <https://doi.org/10.1101/2025.05.20.655207>
- Zain, M., Bennett, L.A., Zhang, H., Pauli, Q., Premachandran, S., Salter, E., **Terstege, D.J.**, Arsenault, J., Pham, C., Wowk, L., Lecker, I., Kingsley, N., Cheung, J., Fung, S.W., Wang, F., Lomanowska, A.M., Epp, J.R., Sharif-Naeini, R., De Koninck, Y., Bonin, R.P. (2025) Spinal and supraspinal adaptations underlie diminished tactile reward in neuropathic pain. *Neuron*.

Published Conference Abstracts (4 Total)

- Dawson, M., **Terstege, D.J.**, Jamani, N., Lee, V., Murari, K., Epp, J.R., Sargin, D. (2024). Role of hypocretin/orexin neurons in social behavior and isolation. *Neuropsychopharmacology. Annual Meeting of the American College of Neuropsychopharmacology* (Arizona, USA)
<https://doi.org/10.1038/s41386-024-02013-y>
- Rodger, J., Moretti, J., **Terstege, D.J.**, Poh, E.Z., Seewoo, B., Epp, J.R. (2023). Connectivity changes following rTMS in rodent: evidence from multimodal imaging. *Brain Stimulation. International Brain Stimulation Conference* (Lisbon, Portugal)
<https://doi.org/10.1016/j.brs.2023.01.247>
- Ramkumar, R., Edge-Partington, M., Adigun, K., Ren, Y., **Terstege, D.J.**, Khan, N.S., Rouhi, N., Jamani, N.F., Tsutsui, M., Epp, J.R., Sargin, D. (2023). The long-term impact of early life stress on serotonin circuits and behavior. *Neuropsychopharmacology. Annual Meeting of the American College of Neuropsychopharmacology* (Florida, USA)
<https://doi.org/10.1038/s41386-023-01755-5>
- Sargin, D., Dawson, M., **Terstege, D.J.**, Jamani, N., Pavlov, D., Tsutsui, M., Epp, J.R., Leininger, G.M. (2022). The role of hypocretin/orexin neurons in social behavior. *Neuropsychopharmacology. Annual Meeting of the American College of Neuropsychopharmacology* (Arizona, USA)
<https://doi.org/10.1038/s41386-022-01485-0>

Conference Presentations (30 Total; 24 Presenting Author; 10 Invited Talks)

International (12 Total; 10 Presenting Author; 7 Invited Talks):

- Terstege, D.J.**, Epp, J.R. (2025). Functional connectivity and inhibitory circuits. INMED U1249, Marseille, France. **Invited Talk.**
- Terstege, D.J.**, Epp, J.R. (2025). Functional connectivity and inhibitory circuits. King's College London, London, UK. **Invited Talk** (Virtual).
- Terstege, D.J.**, Evans, A., Scott, G.A., Tsutsui, M., Epp, J.R. (2024). Running-induced neurogenesis mediates contextual memory reorganization. *International Behavioural Neuroscience Annual Meeting*, Panama City, Panama. **Invited Talk.**
- Terstege, D.J.**, Epp, J.R. (2024). Retrosplenial cortex parvalbumin impairments in Alzheimer's disease. National Institute on Drug Abuse, Baltimore, MD, USA. **Invited Talk.**
- Terstege, D.J.**, Epp, J.R. (2024). Retrosplenial cortex parvalbumin impairments in Alzheimer's disease. Icahn School of Medicine at Mount Sinai, New York City, NY, USA. **Invited Talk.**
- Terstege, D.J.**, Ren, Y., Galea, L.A.M., Sargin, D., Epp, J.R. (2023). Sex-dependent alterations to the functional properties of parvalbumin expressing neurons in the retrosplenial cortex during Alzheimer's disease. *Society for Neuroscience Annual Meeting*, Washington, DC, USA. **Invited Talk.**
- Terstege, D.J.**, Ren, Y., Galea, L.A.M., Sargin, D., Epp, J.R. (2023). Sex-dependent alterations to the functional properties of parvalbumin expressing neurons in the retrosplenial cortex during Alzheimer's disease. *Molecular & Cellular Cognition Society Annual Meeting*, Washington, DC, USA. Poster Presentation.
- Terstege, D.J.**, Ren, Y., Sargin, D., Epp, J.R. (2023). Sex-dependent alterations to the functional properties of parvalbumin expressing neurons in the retrosplenial cortex during Alzheimer's

disease. *International Behavioural Neuroscience Society Annual Meeting*, Niagara Falls, ON, Canada. **Invited Talk.**

Terstege, D.J., Ren, Y., Sargin, D., Epp, J.R. (2023). Sex-dependent alterations to the functional properties of parvalbumin expressing neurons in the retrosplenial cortex during Alzheimer's disease. *Organization for the Study of Sex Differences Annual Meeting*, Calgary, AB, Canada. Poster Presentation.

Ren, Y., Khoshbaf Khiabani, N., **Terstege, D.J.**, Epp, J.R. (2023). Sex differences in retrosplenial cortex parvalbumin interneurons: Implications for Alzheimer's Disease and cognitive decline. *Organization for the Study of Sex Differences Annual Meeting*, Calgary, AB, Canada. Poster Presentation.

Sargin, D., Dawson, M., **Terstege, D.J.**, Jamani, N., Tsutsui, M., Epp, J.R., Leininger, G.M. (2022). The role of hypocretin/orexin neurons in social behavior. *Annual Meeting of the American College of Neuropsychopharmacology*, Phoenix, AZ, USA. Poster Presentation.

Terstege, D.J., Durante, I.M., Epp, J.R. (2020). Establishing a rodent behavioural model of cognitive reserve. *International Behavioural Neuroscience Society Annual Meeting*, Glasgow, United Kingdom. Poster Presentation.

National (6 Total; 4 Presenting Author; 1 Invited Talk):

Terstege, D.J., Epp, J.R. (2024). Neurogenesis mediates contextual memory reorganization. *Canadian Association for Neuroscience Meeting*, Vancouver, Canada. Poster Presentation.

Terstege, D.J., Oboh, D.O., Epp, J.R. (2022). FASTMAP: Open-source flexible atlas segmentation tool for multi-area processing of biological images. *Canadian Association for Neuroscience Meeting*, Toronto, Canada. Poster Presentation.

Terstege, D.J., Evans, A., Scott, G.A., Tsutsui, M., Epp, J.R. (2022). Neurogenesis mediated plasticity is associated with reduced neuronal activity in CA1 during context fear memory retrieval. *Canadian Association for Neuroscience Meeting*, Toronto, Canada. Poster Presentation.

Dawson, M., **Terstege, D.J.**, Jamani, N., Tsutsui, M., Epp, J.R., Leininger, G.M., Sargin, D. (2022). Sex-dependent roles of hypocretin/orexin neurons in social behavior. *Canadian Association for Neuroscience Meeting*, Toronto, Canada. Poster Presentation.

Ramkumar, R., Edge-Partington, M., Jamani, N., Emond, J., **Terstege, D.J.**, Epp, J.R., Sargin, D. (2022). Impact of early life stress on serotonin neuron activity and behaviour. *Canadian Association for Neuroscience Meeting*, Toronto, Canada. Poster Presentation.

Terstege, D.J., Epp, J.R. (2021). A Flexible Atlas Segmentation Tool for Multi-Area Processing of Biological Images. *UBC Tissue Clearing and Expansion Workshop*, Vancouver, Canada. **Invited Talk.**

Local (12 Total; 10 Presenting Author; 2 Invited Talks):

Terstege, D.J., Ren, Y., Sargin, D., Epp, J.R. (2023). Sex-dependent alterations to the functional properties of parvalbumin expressing neurons in the retrosplenial cortex during Alzheimer's disease. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. **Invited Talk.**

Ren, Y., Khoshbaf Khiabani, N., **Terstege, D.J.**, Epp, J.R. (2023). Sex differences in retrosplenial cortex parvalbumin interneurons: Implications for Alzheimer's Disease and cognitive decline. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation.

- Dawson, M., **Terstege, D.J.**, Tsutsui, M., Jamani, N., Murari, K., Epp, J.R., Sargin, D. (2023). The role of hypocretin neurons in isolation-induced social deficits. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Ren, Y., Sargin, D., Epp, J.R. (2023). Sex-dependent alterations to the functional properties of parvalbumin expressing neurons in the retrosplenial cortex during Alzheimer's disease. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation. Poster Competition – 2nd Place Overall
- Terstege, D.J.**, Evans, A., Scott, G.A., Tsutsui, M., Epp, J.R. (2022). Neurogenesis mediated plasticity is associated with reduced neuronal activity in CA1 during context fear memory retrieval. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Oboh, D.O., Epp, J.R. (2022). FASTMAP: Open-source flexible atlas segmentation tool for multi-area processing of biological images. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Durante, I.M., Epp, J.R. (2021). Brain-wide neuronal activation and functional connectivity are modulated by prior exposure to repetitive learning episodes. *2021 HBI Tech Day*, Calgary, Canada. **Invited Talk.**
- Terstege, D.J.**, Durante, I.M., Epp, J.R. (2021). Brain-wide neuronal activation and functional connectivity are modulated by prior exposure to repetitive learning episodes. *2021 Symposium on Promoting Healthy Brain Aging and Preventing Dementia: Research and Translation*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Durante, I.M., Epp, J.R. (2021). Repetitive learning alters memory resiliency and efficiency. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Epp, J.R. (2019). Brain-wide cell detection and mouse brain atlas registration. *BMB Methods Day*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Epp, J.R. (2019). Brain-wide cell detection and mouse brain atlas registration. *Hotchkiss Brain Institute Research Day*, Calgary, Canada. Poster Presentation.
- Terstege, D.J.**, Tasker, R.A. (2018). Ginsenoside G115 is Antidepressant in the Rat. *Science Atlantic Psychology Conference*, Halifax, Canada. Poster Presentation.

Organization of Scientific Meetings

The diverse roles of parvalbumin-expressing cells on behavior. Symposium Co-Chair. *International Behavioral Neuroscience Society Annual Meeting* (2023). Niagara Falls, Canada.

Teaching & Mentorship Experience

Sessional Lecturer

University of Calgary

- MDSC619.02: Systems Neuroscience
 - Winter 2025
 - Graduate Level Course

Teaching Assistant

University of Prince Edward Island

- BIO1310: Genes, Cells & Macromolecules
 - Fall 2016, Fall 2017
 - Undergraduate Level Course
 - 50 Students; 3 Hours Per Week
- BIO1320: Organism and Environment
 - Winter 2017, Winter 2018
 - Undergraduate Level Course
 - 50 Students; 3 Hours Per Week
- PSY2420: Intro. to Social Psychology
 - Winter 2017
 - Undergraduate Level Course
 - 15 Students; 3 Hours Per Week

Undergraduate Student Supervision (supervised work resulting in publication denoted by *)

- Muse Laroyia (2023; Currently: MSc Student in Neuroscience – Dr. Jonathan Epp)
- Duneesha Goonetilleke* (2023; Currently: Research Assistant, University of Calgary)
- Urva Azeem (2022)
- Delaney Ewert (2022; Currently: Therapy Support Aide, Elevated Abilities)
- Elise Fawcett (2021; Currently: Senior Program Coordinator, SPARK Alberta)
- Daniela Oboh* (2020 – 2023; Currently: MSc Student in Neuroscience – Dr. Jonathan Epp)
- Alex Vu** (2019; Currently: MD, Neurology Resident)
- Isabella Durante* (2018 – 2020; Currently: PharmD, University of British Columbia)
- Kelsea Gorzo* (2018; Currently: PhD Candidate in Neuroscience – Dr. Grant Gordon)

Techniques Covered: Rodent handling; behavioural tests: contextual fear conditioning (mouse & rat), open field (mouse), spontaneous alternation Y maze (mouse), Morris water maze (mouse & rat); immunohistochemistry; confocal microscopy; brightfield microscopy; uDISCO tissue clearing; lightsheet microscopy; brain-wide atlas registration.

Additional Items of Interest

Graduate Fellowship Review

- *Student Tri-Agency Fellowship Consultation – Graduate Leaders' Circle (University of Calgary)*
Participation: 2022 – 2025
Roles:
 - Providing mentorship support for applicants to the Canada Graduate Scholarship – Doctoral competitions (NSERC & CIHR)
 - Participating in drop-in scholarship application workshops to assist students preparing to apply for tri-agency funding

Peer Review

Active *ad-hoc* peer reviewer at the following international journals (alphabetical order; impact factor at time of review):

- *eNeuro* (Impact Factor: 2.7)
- *European Journal of Neuroscience* (Impact Factor: 2.7)
- *Frontiers in Pharmacology* (Impact Factor: 4.8)
- *Journal of Visual Experiments (JoVE)* (Impact Factor: 1.0)
- *Pharmacology, Biochemistry and Behavior* (Impact Factor: 3.3)
- *Scientific Reports* (Impact Factor: 3.8)
- *STAR Protocols* (Impact Factor: 1.3)

Conference Judge

Volunteer judge of poster presentations:

- Hotchkiss Brain Institute Summer Student Symposium – University of Calgary, Canada:
 - 2021, 2022, 2023, 2024, 2025

Professional Associations

Active member of the following academic societies (alphabetical order):

- Canadian Association for Neuroscience
- International Behavioral Neuroscience Society
- Organization for the Study of Sex Differences
- Society for Neuroscience

Media Research Spotlights

- *Expansion funding identifies cause of sex-dependent vulnerability in Alzheimer's disease*. Brain Canada Foundation. May 23, 2025. <https://braincanada.ca/expansion-funding-identifies-cause-of-sex-dependent-vulnerability-in-alzheimers-disease/>

Language Certification

- Native English speaker and writer
- Speaks and writes fluently in French (DEL F B2 Certification, 2014)