THE UNIVERSITY OF BRITISH COLUMBIA Curriculum Vitae for Faculty Members

Date: April 1, 2023

Initials: M.S.C.

1. SURNAME: Cembrowski FIRST NAME: Mark MIDDLE NAME(S): Steven

DEPARTMENT/SCHOOL: Cellular and Physiological Sciences 2.

3. FACULTY: Medicine

PRESENT RANK: Assistant Professor **SINCE: 2019** 4.

5. **POST-SECONDARY EDUCATION**

University or Institution	Degree	Subject Area	Dates
University of British Columbia	BSc	Mathematics	2003-2007
Northwestern University	MS	Applied Mathematics	2007-2008
Northwestern University	PhD	Applied Mathematics	2008-2011

6. **EMPLOYMENT RECORD**

Prior to coming to UBC (a)

University, Company or Organization	Rank or Title	Dates
Howard Hughes Medical Institute, Janelia Research Campus	Postdoctoral associate	2012-2015
Howard Hughes Medical Institute, Janelia Research Campus	Research scientist	2015-2018

(b) At UBC

Rank or Title	Dates
Assistant Professor, Dept. of Cellular and Physiological Sciences, Faculty of Medicine	2019-current
Investigator, Djavad Mowafaghian Centre for Brain Health	2019-current
Associate Member, School of Biomedical Engineering	2020-current
Associate Member, Institute of Applied Mathematics	2020-current
Associate Member, Dept. of Mathematics	2021-current
Full Member, Bioinformatics Program	2021-current

Date of granting of tenure at U.B.C.: (c)

N/A

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
None		

THE UNIVERSITY OF BRITISH COLUMBIA

Publications Record

SURNAME: Cembrowski

FIRST NAME: Mark MIDDLE NAME(S): Steven **Initials**: MSC **Date**: 12/11/2022

1. <u>REFEREED PUBLICATIONS</u>

(a) Journals

Broad metrics: 1782 total citations; 17 h-index

<u>Conventions used below</u>: ^: co-first author; [§]: corresponding author; <u>underlined</u>: UBC trainee (*: graduate student/postdoc; #: undergraduate student); [IF]=impact factor, [N]=number of citations

Publications as PI

- 24. <u>Guskjolen, A.*</u>, Cembrowski, M.S.[§] Engram neurons: encoding, consolidation, retrieval, and forgetting of memory. <u>*Molecular Psychiatry*</u>, third revision in review (invited submission). [IF: 16.0]
- Sullivan, K.E.*, Kraus, L.*, Kapustina, M.#, Wang, L., Stach, T., Lemire, A.L., Clements, J., Cembrowski, M.S.[§] Sharp cell-type-identity changes differentiate the retrosplenial cortex from the neocortex. <u>Cell Reports</u>, 6;42(3): 2023. [IF 9.4].
- O'Leary, T.P.*[^], <u>Kendrick, R.M.*[^]</u>, <u>Bristow, B.N.*</u>, <u>Sullivan, K.E.*</u>, Wang, L., Clements, J., Lemire, A.L., Cembrowski, M.S.[§] Neuronal cell types, projections, and spatial organization of the central amygdala. <u>*iScience*</u>, 25(12): 1-18, 2022. [IF: 6.2, N=1]
- Erwin S.R.*, Bristow, B.N.*, Sullivan, K.E.*, Marriott, B., Wang, L., Clements, J., Lemire, A., Jackson, J.[§], Cembrowski, M.S.[§] Spatially patterned excitatory neuron subtypes and circuits within the claustrum. <u>*eLife*</u>, 10:e68967, 2021. [IF: 8.1, N=10]
- Sullivan, K.E.*, Kendrick, R.M., Cembrowski, M.S.[§]. Elucidating memory in the brain via single-cell transcriptomics. Journal of Neurochemistry, 157:982–992, 2021. [IF: 5.4, N=5]
 - "Top Downloaded Article Award": 18th most downloaded publication from 2021 Journal of Neurochemistry
- 19. <u>O'Leary, T.P.*'</u>, <u>Sullivan, K.E.*'</u>, Wang, L., Lemire, A., Clements, J., Cembrowski, M.S.[§] Extensive and spatially variable within-cell-type heterogeneity across the basolateral amygdala. <u>*eLife*</u> 9, e59003:1-27, 2020. [IF: 8.1, N=32]
 "Striking Image" award from eLife
- Erwin, S.R.*, Sun, W., Copeland, M., Lindo, S., Spruston, N., Cembrowski, M.S.[§] A sparse, spatially biased subtype of mature granule cell is preferentially recruited in hippocampal-associated behaviors. <u>*Cell Reports*</u>, 31(4):1-12, 2020. [IF=9.4; N=35]
- Cembrowski, M.S.[§] Single-cell transcriptomics as a framework and roadmap for understanding the brain. <u>Journal of</u> <u>Neuroscience Methods</u>, 326: 1-7, 2019. [IF=2.8; N=28]

Publications prior to PI

- Cembrowski, M.S.[§], Spruston, N.[§] Heterogeneity within classical cell types is the rule: lessons from hippocampal pyramidal neurons. *Nature Reviews Neuroscience*, 20(4): 193-204, 2019. [IF=33.1; N=140]
 - Cover illustration.
 - Recommendation on Faculty of 1000.
- Cembrowski, M.S.[§], Wang, L., Lemire, A., DiLisio, S.F.[^], Copeland, M., Clements, J., Spruston, N. The subiculum is a patchwork of discrete subregions. <u>*eLife*</u> 7, 10/7554/eLife.37701, 2018. [IF=7.5; N=42]
 - Research Highlight. Lewis, S. Patchwork subiculum. Nature Reviews Neuroscience 20(1): 3, 2019.
- Cembrowski, M.S.[§], Phillips, M.G.[^], DiLisio, S.F.[^], Shields, B.C., Winnubst, J., Chandrashekar, J., Bas, E., Spruston, N.[§] Dissociable structural and functional hippocampal outputs via distinct subiculum cell classes. <u>Cell</u> 173(5): 1280–1292, 2018. [IF=36.2; N=108]

- Research Highlight. Whalley, K. A regional divide. Nature Reviews Neuroscience 19(7): 390, 2018.
- Bloss, E.B., Cembrowski, M.S., Karsh, B., Colonell, J., Fetter, R.D., Spruston, N.[§] Single excitatory axons form clustered synapses onto CA1 pyramidal cell dendrites. *Nature Neuroscience* 21(3): 353-363, 2018. [IF=21.1; N=61]
- Cembrowski M.S.[§], Menon, V.[§] Continuous variation within cell types of the nervous system. <u>*Trends in Neurosciences*</u> 41(6): 339-350, 2018. [IF=14.4; N=49]
- Cembrowski, M.S.[§], Spruston, N. Integrating results across methodologies is essential for producing robust neuronal taxonomies. <u>Neuron</u> 94(1): 747-751, 2017. [IF=14.4; N=14]
- Cembrowski, M.S., Wang., L., Sugino, K., Shields, B.C., Spruston, N.[§] Hipposeq: a comprehensive RNA-seq database of gene expression in hippocampal principal neurons. <u>*eLife*</u> 5, 10.7554/eLife.14997, 2016. [IF=7.5; N=231]
- Bloss, E.B., Cembrowski, M.S., Karsh, B., Colonell, J., Fetter, R., Spruston, N.[§] Structured patterns of dendritic inhibition support branch-specific forms of integration in CA1 pyramidal cells. <u>Neuron</u> 89(5): 1016-1030, 2016. [IF=14.4; N=114]
- Cembrowski, M.S.[§], Spruston, N. Illuminating the neuronal architecture underlying context in fear memory. <u>Cell</u> 167(4): 888-889, 2016. [IF=36.2; N=4]
- Cembrowski, M.S., Bachman, J.L., Wang, L., Sugino, K., Shields, B.C., Spruston, N.[§] Spatial gene-expression gradients underlie prominent heterogeneity of CA1 pyramidal neurons. <u>Neuron</u> 89(2): 351-368, 2016. [IF=14.4; N=228]
 - *Featured article of the issue.* Previewed by Tushev, G. and Schuman, E.M. Rethinking Functional Segregation: Gradients of Gene Expression in Area CA1. <u>Neuron</u> 89(2):242-243, 2016.
 - Of Outstanding Interest. Mallory, C.S. and Giocomo, L.M. Heterogeneity within hippocampal place coding. Review, <u>Current Opinion in Neurobiology</u> 49:158-167, 2018.
 - *Highlighted reference (1 of 6).* Soltesz, I. and Losonczy, A. CA1 pyramidal cell diversity enabling parallel information processing in the hippocampus. Review, *Nature Neuroscience* 21(18): 484-493, 2018.
 - Of Special Interest. Valero, M. and de la Prida, L.M. The hippocampus in depth: a sublayer-specific perspective of entorhinal-hippocampal function. Review, *Current Opinion in Neurobiology* 52:107-114, 2018.
 - Of Special Interest. Suvrathan, A. Beyond STDP Towards Diverse and Functionally Relevant Plasticity Rules. Review, <u>Current Opinion in Neurobiology</u> 54:12-19, 2019.
- Kim, Y.[^], Hsu, C.-L.[^], Cembrowski, M.S., Mensh, B.D., Spruston, N.[§] Dendritic sodium spikes are required for long-term potentiation at distal synapses on hippocampal pyramidal neurons. <u>*eLife*</u> 4, doi:10.7554/eLife.06414, 2015. [IF=7.5; N=74]
 - Recommendation on Faculty of 1000.
- Choi, H., Lei, Zhang, L., Cembrowski, M.S., Sabottke, C.F., Markowitz, A.L., Butts, D.A., Kath, W.L., Singer, J.H., Riecke, H.[§] Intrinsic bursting of AII amacrine cells underlies oscillations in the rd1 mouse retina. <u>Journal of</u> <u>Neurophysiology</u> 112(6): 1491-1504, 2014. [IF=2.6; N=67]
- 4. Ke, J., Wang, Y., Borghuis, B.G., Cembrowski, M.S., Riecke, H., Kath, W.L., Demb, J.B., Singer, J.H.[§] Adaptation to background light enables contrast coding at rod bipolar cell synapses. <u>Neuron</u> 81(2): 388-401, 2014. [IF=14.4; N=62]
 Recommendation on Faculty of 1000.
- Cembrowski, M.S.[§], Logan, S., Tian, M., Jia, L., Li, W., Kath, W.L., Riecke, H., Singer, J.H. The mechanisms of repetitive spike generation in an axonless retinal interneuron. *Cell Reports* 1(2): 155-166, 2012. [IF=9.4; N=37]
- Jarsky, T.[^], Cembrowski, M.S.[^], Logan, S., Kath, W.L., Riecke, H., Demb, J., Singer, J.H.[§] A synaptic mechanism for retinal adaptation to luminance and contrast. *<u>The Journal of Neuroscience</u>* 31(30): 11003-110515, 2011. [IF=6.1; N=110]
- Lim, E.M., Cembrowski, G.S., Cembrowski, M., Clarke, G.[§] Race-specific WBC and neutrophil count reference intervals. *International Journal of Laboratory Hematology* 32(6): 590-597, 2010. [IF=2.1; N=82]

8. <u>TEACHING</u>

(a) Areas of special interest and accomplishments

My teaching, both in a classroom and research setting, is multidisciplinary. This teaching combines elements of neuroscience, computer science, engineering, mathematics, and physics. This gives my students in-demand skill sets and expedites the research of my trainees.

(b) Courses Taught at UBC

Overall summary of contact hours

Course Number	2019W	2020W	2021W	2022W
BMEG350	4	4	4	4
CAPS430		12	18	
PHYS449		20		20
CAPS449			20	
PSYC448			20	
CAPS448			30	40
CAPS200			6	6
BIOL448				20
CAPS426				10
ISCI448				20
CAPS431				7
Total contact	4	36	98	121
hours				

Undergraduate Courses

(c) Other teaching of undergraduates, graduates, and postgraduates

None

(d) Trainees supervised Total: 18 total undergraduates, 14 total graduates, 3 postdoctoral, 3 research technicians

Undergraduate students Total: 18 total students: 6 current, 12 complete

My laboratory hosts undergraduates from different disciplines and provides research experience in neuroscience, mathematics, physics, and computation.

Student Name	Drogrom	Year		Supervisory		
Student Ivanie	riogram	Start	Finish	Role		
Coursework-based positions	Coursework-based positions					
Kate Dunne	CAPS 448	01/2023	04/2023	Supervisor		
Margarita Kapustina	BIOL 448	09/2022	04/2023	Supervisor		
Ali Tarik	ISCI 448	09/2022	12/2022	Supervisor		
Joshua Tindall	PHYS 449	09/2022	04/2023	Supervisor		
Jamie Conibear	CAPS 448	09/2022	12/2022	Supervisor		
William Daniels	CAPS 448	01/2022	04/2022	Supervisor		

Student Nome	Ducana	Ye	ear	Supervisory	
Student Name	Program	Start	Finish	Role	
Willis Cao	CAPS 449	09/2021	04/2022	Supervisor	
Nadine Plett	CAPS 448	09/2021	04/2022	Supervisor	
Lauren Zung	PSYC 448	09/2021	04/2022	Supervisor	
Madeline Elder	PHYS 449	09/2020	04/2021	Supervisor	
Co-op research positions					
Angela Zhang	Faculty of Science Co-op	09/2022	12/2022	Supervisor	
Jennifer Tsai	Waterloo Co-op	01/2022	04/2022	Supervisor	
Aahana Kanyal	School of Biomedical Engineering	09/2020	12/2020	Supervisor	
	Со-ор				
Funded research positions					
Raja Choudhary	NSERC USRA	05/2022	09/2022	Supervisor	
Angela Zhang	SSRP / SURE / Co-op student	05/2022	09/2023	Supervisor	
Esther Kim	Work-Learn	05/2022	09/2022	Supervisor	
Nadine Plett	SSRP / Work-Learn	05/2021	08/2021	Supervisor	
Madeline Elder	NSERC USRA	05/2020	08/2020	Supervisor	
Other					
Hans Bae	Volunteer	07/2019	03/2020	Supervisor	
Stacy Wang	Volunteer	07/2019	03/2020	Supervisor	
Willis Cao	Volunteer	04/2019	03/2020	Supervisor	

Graduate students Total: 14 total students, 14 current

Student Name	Program Type	Ye	ar	Supervisory Role
		Start	Finish	(supervisor, co-supervisor, committee member)
Kaitlin Sullivan	PhD, Graduate Program in Neuroscience	2019	2024 (expected)	Supervisor
Adrienne Kinman	PhD, Graduate Program in Neuroscience	2019	2024 (expected)	Supervisor
Derek Merryweather	PhD, Graduate Program in Neuroscience	2021	2025 (expected)	Supervisor
Sarah Erwin	MSc, Graduate Program in Neuroscience	2021	2023 (expected)	Supervisor
Jasem Estakhr	PhD, Graduate Program in Neuroscience	2017	2023 (expected)	Co-supervisor (with Yu Tian Wang)
Mathias Delhaye	PhD, Graduate Program in Neuroscience	2021	2025 (expected)	Co-supervisor (with Ann Marie Craig)
Daemon Cline	PhD, CELL Program	2020	2024 (expected)	Supervisor
Regan Campbell	MSc, Graduate Program in Neuroscience	2022	2024 (expected)	Supervisor
Shalini Iyer	PhD, Graduate Program in Neuroscience	2022	2026 (expected)	Supervisor
Brianna Bristow	MSc, Graduate Program in Neurosciene	2022	2024 (expected)	Supervisor
Sydney Wood	MSc Neuroscience, Nottingham University	2022	2023	External placement supervisor
Milena Baldauf	MSc Neurosciences, University Bremen	2023	2023	External placement supervisor

Catie Futhey	MD-PhD (PhD Graduate Program in Pathology)	2023	2029 (expected)	Co-supervisor (with Veronica Hirsch- Reinshagen)
Margarita Kapustina	MSc, Graduate Program in Neuroscience	2023	2025 (expected)	Supervisor

Postdoctoral Scientists

Overall summary: 3 total; 1 current, 2 complete

Nama	D	Yea	ar	Convert Desition
Name	Position	Start	Finish	Current Position
Larissa Kraus	Post-doctoral fellow	09/2020	current	In lab
Axel Guskjolen	Post-doctoral fellow	01/2021	12/2021	Scientific editor, Neuron
Timothy O'Leary	Research Associate	01/2019	12/2020	RA, Bamji laboratory, UBC

Other research staff supervision

Total = 3; 0 *current*, 3 *complete*

Nama	Desition	Yea	ar	Current Position
Name	Position	Start	Finish	Current Position
Brianna Bristow	Technician I/II	09/2020	09/2022	MSc student in lab
Sarah Erwin	Technician IV	03/2019	05/2021	MSc student in lab
Rennie Kendrick	Fulbright Scholar	09/2020	08/2021	Grad student, Stanford

Academic Mentoring. As a mentor with the Integrated Sciences program I provide academic guidance and support for the student's course choices, as well as general mentoring advice.

Nomo	Nama Buagaam		ar	Current Desition	
Name	Program	Start	Finish	Current Position	
Mia Kassab	Integrated Sciences	12/2020	current	UBC undergraduate student	
Riya Gandhi	Integrated Sciences	12/2022	current	UBC undergraduate student	
Tamila Kalimullina	MSc, Experimental	03/2022	06/2022	UBC MSc student	
	Medicine Rotation				

(d) Graduate Program Committee Memberships Overall summary: 16 total. Details available upon request.

9. <u>SCHOLARLY AND PROFESSIONAL ACTIVITIES</u>

(a) Areas of special interest and accomplishments

Areas of special interest: Integrating mathematical, computational, and experimental approaches to understand the neuroscience of memory and cognition.

Major accomplishments

- Distinguished Achievement Award for Foundational Science Research. UBC Faculty of Medicine. 2021.
- Cortical Explorer Prize. Cajal Club. 2020. (sole recipient worldwide in 2020 competition)

- Azrieli Future Leader of Canada Brain Research. Brain Canada Foundation. 2020.
- Scholar Award. Michael Smith Foundation for Health Research. 2020.
- 1907 Trailblazer Competition Institutional Nominee. 2020. (1 of 2 selected at UBC)
- Visiting Scientist. Janelia Research Campus, Howard Hughes Medical Institute. 2019-current.
- Next Generation Leader. Allen Institute, 2018. (1 of 6 selected worldwide in 2018)
- Top nominated speaker award, Janelia Research Campus Annual Symposium. 2017.
- Graduate Research Fellowship, National Science Foundation. 2009.
- Postgraduate Scholar Award Doctoral, Natural Sciences and Engineering Research Council of Canada. 2009.
- University Scholar, Northwestern University Graduate School. 2009.
- Multidisciplinary Visual Sciences Training Grant, National Institutes of Health. 2008.
- Royal E. Cabell Fellowship, Northwestern University. 2007.
- Science Scholar, University of British Columbia. 2007.
- Undergraduate Student Research Award, Natural Sciences and Engineering Research Council of Canada. 2007.
- *(b) Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))*

Grants Awarded.

Total: 16 grants awarding ~\$11.5M [13 operating (total: \$4.7M), 1 salary (total: \$450K), 2 infrastructure (total: \$6.3M)]

Granting	Subject	COMP	\$	Year	Principal	Co-Investigator(s)
Agency			Per Year		Investigator	
CIHR,	New Frontiers in Research	COMP	\$125K	03/2023-	Mark	Veronica Hirsch-
NSERC,	Fund: The cell-type-		CAD/year	02/2025	Cembrowski	Reinshangen
SSHRC	specific basis of epilepsy					Mostafa Fatehi
	and treatment in the living		(\$250K			John Maguire
	human brain		total)			Gary Redekop
CHID		COLU	¢1,5117	0.1/2022	X 7 '	Nozomu Yachie
CIHR	Project Grant:	COMP	\$151K CAD/waam	04/2023-	Veronica	William Hanar
	impairment in abronia		CAD/year	03/2027	Hirscn-	Fidel Vile
	schizophrenia		(\$604K		Kemsnangen	Rodriguez
	semzophrema		total)			Rounguez
Scottish Rite	Maior Research Grant:	COMP	\$40K	10/2022-	Mark	-
Charitable	Understanding and	com	CAD/vear	09/2025	Cembrowski	
Foundation of	therapeutically leveraging a		5			
Canada	rare neocortical neuron type		(\$120K			
	in an ASD mouse model		total)			
CIHR	Project Grant: A	COMP	\$205K	10/2022-	Mark	-
	specialized neural circuit		CAD/year	09/2027	Cembrowski	
	representing novelty on					
	behavioural timescales		(\$1.02M			
			total)	- /2		
Djavad	Kickstarter grant:	COMP	\$30K	7/2022-	Mark	Nozomu Yachie
Mowafaghian	Applying unprecedented-		CAD/year	6/2023	Cembrowski	Geoff Schiebinger
Centre Ior	scale spatial transcriptomics		(\$20V			
Drain Health	cellorganization of the		(\$30K total)			
	human neocortey		ioial)			
	numan neoconcx					

Advanced Cell Diagnostics	Spatial Genomics Award: Applying multiplexed FISH for unprecedented insight into the human brain	COMP	\$30K CAD/year (\$30K total)	4/2021- 06/2021	Mark Cembrowski	-
CFI, BCKDF	Innovation Fund Grant: in Vivo Multimodal Analysis of neuroProjectome (iMAP)	COMP	\$2M CAD/year (\$6M total)	6/2021- 5/2024	Tim Murphy	Mark Cembrowski Ann Marie Craig Liisa Galea Brian MacVicar Lynn Raymond Terrence Snutch Yu Tian Wang Cheryl Wellington Catherine Winstanley
Djavad Mowafaghian Centre for Brain Health	Dawn Shaw Alzheimer's Disease Research Grant: Optimizing and understanding therapeutic sensory entrainment in Alzheimer's disease models using brain-wide high density recordings and alignment to molecular markers	COMP	\$62.5K CAD/year (\$125K total)	1/2021- 12/2022	Tim Murphy	Mark Cembrowski
Brain Canada Foundation, Health Canada, Azrieli Foundation	Azrieli Future Leader in Canadian Brain Research: The cell-type-specific organization and operation of the living human subiculum in health and epilepsy	COMP	\$50K CAD/year (\$100K total)	10/2020- 09/2022	Mark Cembrowski	-
Michael Smith Foundation for Health Research	Scholar Award: Understanding and disrupting fear memory in the brain	COMP	\$90K CAD/year (\$450K total)	06/2020- 05/2025	Mark Cembrowski	-
USA Department of Defense	Convergence Science Research Award: Using the CHIMERA Model to Dissect the Mechanisms by Which Abeta Modulates Chronic Fear Memory Extinction and Cognitive Flexibility After Traumatic Brain Injury	COMP	~\$280K CAD/year (\$840K total)	04/2020 – 03/2023	Cheryl Wellington	Mark Cembrowski
CIHR	Project Grant: Elucidating and disrupting the neural substrates of fear memory.	COMP	~\$193K CAD/year (\$970K total)	10/2019- 09/2024	Mark Cembrowski	-

NSERC	Discovery Grant: Subtype-	COMP	\$37K	06/2019-	Mark	-
	specific rules of memory		CAD/year	05/2024	Cembrowski	
	encoding and retrieval in					
	dentate gyrus granule cells		(\$185K			
			total)			
NSERC	Discovery Grant	COMP	~\$12K	06/2019-	Mark	-
	Supplement: Subtype-		CAD/year	05/2020	Cembrowski	
	specific rules of memory					
	encoding and retrieval in		(\$12K			
	dentate gyrus granule cells		total)			
CIHR,	New Frontiers in Research	COMP	~\$140K	03/2019-	Mark	Andre Berndt
NSERC,	Fund: Generation and		CAD/year	02/2021	Cembrowski	
SSHRC	application of a novel					
	molecular biosensor in fear		(\$280K			
	memory		total)			
CFI, BCKDF	John R. Evans Leaders	COMP	~\$104K	06/2019-	Mark	-
	Fund: Memory		CAD/year	05/2022	Cembrowski	
	Deconstruction Facility					
			(\$312K			
			total)			
Howard	Visiting Scientist Award:	COMP	~\$44K	01/2019-	Mark	-
Hughes	A bottom-up understanding		CAD/year	12/2022	Cembrowski	
Medical	of cell-type heterogeneity in					
Institute	the brain.		(\$134K			
			total)			

- (c) Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or noncompetitively (NC).
- (d) Invited Presentations (Identify whether International/National/Local)

Invited presentations as PI (since 2019):

Overall summary: 14 international, 10 national, 10 local talks (<u>34 total, including 3 keynote speakerships, 1 distinguished</u> <u>speakership, 1 plenary talk</u>) [details available upon request]

10. SERVICE TO THE UNIVERSITY (SELECTED)

(a) Areas of special interest and accomplishments

Associate Director, Graduate Program in Neuroscience. 2022-current. Chair, Memory and Dementias Integrated Research Program. 2022-current.

(b) Memberships on committees, including offices held and dates

Life Sciences Institute (home Institute)

Date	Committee	Total	Role and description
		hours	
2019-2020	"Grand Challenges" Steering	10	Member. This committee identifies key research areas and
	Committee		priorities for the Life Sciences Institute, for guiding strategic
			hiring and development of core facilities.
2021-	Alzheimer's Research Focus	2	Member. This research team focuses on developing research
current.	Team		themes and collaborations within the Alzheimer's field.

Date	Committee	Total	Role and description
		hours	
2022- current	Memory and Dementias Integrated Research Program	50	Chair (2022-current) and co-chair (2022). This group meetings to develop research collaborations, plan research events, and engage stakeholders and donors. My role as Chair is extensive, and includes coordinating with Development Office on potential donors, meeting donors, helping to develop local and international collaborations through meetings, planning and executing the first-
			seminar (via Lee Kong Chian School of Medicine, NTU Singapore).

Djavad Mowafaghian Centre for Brain Health (co-primary affiliation)

Graduate Program in Neuroscience (current Associate Director and member)

Date	Committee	Total hours	Role and description
2022- current	Associate Director	100	Associate Director. This is my most extensive individual service component, and takes an immense amount of time. The Graduate Program in Neurosience (GPN) is a MSc and PhD graduate program involving 150 students, and 120 faculty members representing more than 20 departments across the Faculties of Medicine, Science and Arts. My work as Associate Director is multifaceted, and to date has involved administrative hiring, formalizing our student interview process, incorporating EDI principles into a variety of GPN initiatives, liasing with the Undergradate Neuroscience Program and Neuroscience Trainee Association, chairing comprehensive exams, and presenting on behalf of the GPN to stakeholders

UBC

Date	Committee	Body	Total	Role and description
			hours	
2022-	Research	Faculty of	4	Member. The research committee advises and facilitates
curent	Committee	Medicine		priority research initiatives within the Faculty of Medicine.
2022	CRC Tier II	Department of	6	Member. This committee reviewed, interviewed, and
	Selection	Pathology and		adjudicated applicants applying for a CRC Tier II position
	Committee	Laboratory		for the Department of Pathology and Laboratory Medicine.
		Medicine		
2022	Educational	Department of	2	Member. This committee was involved in providing
	Leadership hire	Zoology		recommendations for the hiring profile and job
	advising			advertisement for an eductional leadership position in
	committee			computational biology in the Department of Zoology.

11. <u>SERVICE TO THE COMMUNITY</u>

(a) Memberships on scholarly societies, including offices held and dates

Date	Society	Hours	Notes
2009-current	Society for Neuroscience	0	-
2018-current	Canadian Association for Neuroscience	0	-
2020-current	Cajal Club	0	Admitted to Cajal Club upon receiving Krieg
			Cortical Explorer Award in worldwide

	competition

(c) Memberships on scholarly committees, including offices held and dates

Date	Committee	Society	Hours	Notes
2021-current	Scientific Program	Canadian	10	-
	Committee	Association for		
		Neuroscience		
2018-2021	Scientific Advisory Board	Allen Institute	120	Admitted to Allen Institute Scientific
				Advisory Board upon receiving Next
				Generation Leader Award in
				worldwide competition

12. <u>AWARDS AND DISTINCTIONS</u>

(a) Awards for Teaching (indicate name of award, awarding organizations, date)

Year	Award	Agency	Notes
2022	Positive Teaching Letter	Dean of Science, UBC	In recognition for my teaching "hav[ing] received some of the highest student evaluations in the Faculty of Science in 2021 Winter Term 2." (for CAPS 200 2021 Winter Term 2 teaching)

(b) Awards for Scholarship (indicate name of award, awarding organizations, date)

Year	Award	Agency	Notes
2021	Distinguished	UBC Faculty of Medicine	
	Achievement Award		
	for Foundational		
	Science Research		
2020	Krieg Cortical Explorer	Cajal Club	Considered one of the most prestigious honours a
	Award		young neuroscientist can received, I was the sole
			awardee in the 2020 worldwide competition.
2020	Azrieli Foundation	Azrieli Foundation	One of 20 selected in 2020 national competition.
	Future Leader of		
	Canada Brain Research		
2020	Scholar Award	Michael Smith Health	Salary award (\$450K) to to develop, attract and retain
		Research British Columbia	British Columbia's best and brightest health
			researchers.
2018	Next Generation	Allen Institute	Considered one of the most prestigious honours a
	Leader Award		young neuroscientist can received, I was one of six
			total awardees in the 2018 worldwide competition.

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