

EREZ FREUD, Ph.D.
CURRICULUM VITAE

I. CONTACT

Department of Psychology and the Centre for Vision Research
Sherman Health Science Centre 1008
York University
Toronto, Ontario Canada M3J 1P3

II. DEGREES:

Ben-Gurion University of the Negev, Israel
PhD in Psychology
August 2015

Ben-Gurion University of the Negev, Israel
MA in Psychology (*Summa Cum Laude*)
August 2011

Ben-Gurion University of the Negev, Israel
BA in Behavioral sciences (*Cum Laude*)
August 2009

III. EMPLOYMENT HISTORY:

Assistant Professor – Department of Psychology, York University *July 2018- Present*

Affiliations

Graduate Programme in Psychology, York University
Graduate Programme in Biology, York University
Faculty Member, Centre for Vision Research, York University
Core member, Vision-Science to Application (VISTA), York University

Post-Doctoral Fellow – *Aug 2015- July 2018*
Department of Psychology and Center for the Neural Basis of Cognition, Carnegie Mellon University,
Pittsburgh, PA, USA

IV. HONOURS AND AWARDS:

2017: Israel Scientific Foundation (ISF) Post-Doctoral Fellowship (\$40,000)
2015: Rothschild Foundation Post-Doctoral Fellowship (\$60,000)

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2015: Cognitive Neuropsychology travel award for outstanding research by an early-stage researcher in the field of cognitive neuropsychology.

2015: Ben-Gurion University Rector award for excellent PhD students

2015: Travel grant in memory of Prof. Shlomo Bentin

2014: Travel grant from the National Institute of Psychobiology in Israel

2014: Recipient of the Prof. Marianne Amir award for academic achievements for PhD students

2013: Faculty of Humanities and Social Sciences award for the best student's publication.

2012: Zlotowski center for Neuroscience scholarship for excelled PhD students (1 year).

2011: The Negev scholarship for outstanding PhD student (4 years).

V. SCHOLARLY AND PROFESSIONAL CONTRIBUTIONS:

PUBLICATIONS REFEREED JOURNALS

Trainees (at the time of project) are indicated with a solid underline

1. Stajduhar, A., Ganel, T., Avidan, G., Rosenbaum, R. S., & **Freud, E.** (2021). Face Masks Disrupt Holistic Processing and Face Perception in School-Age Children. *PsyArXiv*
<https://doi.org/10.31234/osf.io/fygjq>
2. **Freud E.**, Binur N., Srikanth A., Davidson E., Ganel T. & Hadad B.S. Double Dissociation Between Perception and Action in Children. (2021). *Journal of Experimental Child Psychology*, 201, 104986.
3. **Freud E.**, Stajduhar A., Rosenbaum R.S., Avidan G. & Ganel T. The COVID-19 pandemic masks the way people perceive faces (2020). *Scientific Reports*. 10.31234/osf.io/zjmr8 (The paper was included in the "Scientific Reports Top 100 2020" list (<https://www.nature.com/collections/feidhcahdd>)).
4. Maallo, A. M. S., Granovetter, M. C., **Freud, E.**, Kastner, S., Pinsk, M. A., Patterson, C., & Behrmann, M. (2020). All hands on deck: Large-scale (re) sculpting of cortical circuits in post-resection children. *Scientific Reports*.
5. **Freud, E.**, Behrmann, M., & Snow, J. C. (2020). What Does Dorsal Cortex Contribute to Perception? *Open Mind*, 1-18.
6. **Freud, E.**, & Behrmann, M. (2020). Altered large-scale organization of shape processing in visual agnosia. *Cortex*.129, 423-435
7. Maallo, A. M. S., **Freud, E.**, Liu, T. T., Patterson, C., & Behrmann, M. (2020). Effects of unilateral cortical resection of the visual cortex on bilateral human white matter. *NeuroImage*. 207, 116345

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8. **Freud E.**, Plaut D. C., & Behrmann M. (2019) Protracted developmental trajectory of shape processing along the two visual pathways *Journal of Cognitive Neuroscience*, 31(10), 1589-1597
9. Liu, T. T.*, **Freud, E***, Patterson, C., & Behrmann, M. (2019). Perceptual function and category-selective neural organization in children with resections of visual cortex. *Journal of Neuroscience*, 39(32), 6299-6314. (*The authors have contributed equally to this work)
10. Collins E., **Freud E.**, Kainerstorfer J. M., Cao J. & Behrmann M. (2019) Temporal dynamics of shape processing differentiate contributions of dorsal and ventral visual pathways. *Journal of Cognitive Neuroscience*, 31(6), 821-836
11. **Freud E.**, Culham J. C., Namdar G., & Behrmann M. (2019) Object complexity modulates the association between action and perception in childhood. *Journal of Experimental Child Psychology*, 179, 56-72.
12. Liu, T. T., Nestor, A., Vida, M. D., Pyles, J. A., Patterson, C., Yang, Y., Yang, F. N., **Freud, E.**, & Behrmann, M. (2018). Successful Reorganization of Category-Selective Visual Cortex following Occipito-temporal Lobectomy in Childhood. *Cell reports*, 24(5), 1113-1122.
13. **Freud, E.**, Robinson A. K., & Behrmann, M. (2018) More than Action: The Dorsal Pathway Contributes to the Perception of 3-D Structure. *Journal of cognitive neuroscience*, 30(7), 1047-1058.
14. **Freud, E.**, Macdonald, S. N., Chen, J., Quinlan, D. J., Goodale, M. A., & Culham, J. C. (2018). Getting a grip on reality: Grasping movements directed to real objects and images rely on dissociable neural representations. *Cortex*, 98, 34-48.
15. **Freud E.**, Culham J. C., Plaut D. C. & Behrmann M. (2017) The large-scale organization of shape processing in the ventral and dorsal pathways. *eLIFE*, DOI: 10.7554/eLife.27576
16. **Freud E.**, & Behrmann, M. (2017). The life-span trajectory of visual perception of 3D objects. *Scientific Reports*, 7(1), 11034. DOI: 10.1038/s41598-017-11406-7
17. **Freud E.**, Ganel T., Shelef I., Hammer M. D., Avidan G. & Behrmann M. (2017). Three-dimensional representations of objects in dorsal cortex are dissociable from those in ventral cortex. *Cerebral Cortex*. 27 (1), 422-434. DOI: 10.1093/cercor/bhv229
18. **Freud, E.**, Plaut, D. C. & Behrmann, M. (2016). "What" is happening in the dorsal visual pathway. *Trends in Cognitive Sciences* 20(10), 773-784. DOI: 10.1016/j.tics.2016.08.003
19. **Freud E.**, Ganel T., Avidan G. & Gilaie-Dotan S., (2016). Functional dissociation between action and perception in developmental object agnosia. *Cortex*, 76,17-27. DOI: 10.1016/j.cortex.2015.12.006

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20. **Freud E.**, Ganel T. & Avidan G., (2015). Impossible expectations: fMRI adaptation is modulated by spatial probability. *NeuroImage*. 122, 188-194. DOI: 10.1016/j.neuroimage.2015.07.085
21. **Freud, E.** & Ganel T. (2015). Visual control of action directed to two-dimensional objects relies on holistic processing of object shape. *Psychonomic Bulletin and Review*. 22(5), 1377-1382. DOI: 10.3758/s13423-015-0803-x
22. **Freud E.**, Rosenthal G., Ganel T. & Avidan G., (2015). Sensitivity to object impossibility in the human visual cortex- Evidence from functional connectivity. *Journal of Cognitive Neuroscience*.27(5), 1029-1043. DOI: 10.1162/jocn_a_00753
23. **Freud E.**, Hadad B-H., Avidan G.& Ganel T. (2015) Evidence for Similar Early but Not Late Representation of Possible and Impossible Objects. *Frontiers in Psychology*, 6(94). DOI: 10.3389/fpsyg.2015.00094
24. **Freud, E.**, Avidan, G. & Ganel T., (2015). The highs and lows object impossibility: Effects of spatial frequency on holistic processing of impossible objects. *Psychonomic Bulletin and Review* 22(1), 297-306. DOI: 10.3758/s13423-014-0678-2
25. Ganel T., **Freud E.** & Meiran N. (2014) Action is immune to the effects of Weber's law throughout the entire grasping trajectory. *Journal of Vision*. 14(7), 1-11. DOI: 10.1167/14.7.11
26. Tanzer, M., **Freud, E.**, Ganel, T., & Avidan, G. (2013). General holistic impairment in congenital prosopagnosia: Evidence from Garner's speeded-classification task. *Cognitive Neuropsychology*, 30(6), 429-445. DOI: 10.1080/02643294.2013.873715
27. **Freud E.**, Aisenberg D., Salzer Y., Henik A. & Ganel T. (2013) Simon in Action: The Effect of Spatial Congruency on Grasping Trajectories. *Psychological Research*, 79(1), 134-142. DOI: 10.1007/s00426-013-0533-5
28. **Freud, E.**, Avidan, G., & Ganel, T. (2013). Holistic processing of impossible objects: Evidence from Garner's speeded-classification task. *Vision Research*, 93, 10-18. DOI: 10.1016/j.visres.2013.10.001
29. **Freud, E.**, Ganel T., & Avidan, G. (2013). Representation of possible and impossible objects in the human visual cortex: Evidence from fMRI adaptation. *NeuroImage*, 64,685-692. DOI: 10.1016/j.neuroimage.2012.08.070
30. Ganel, T., **Freud, E.**, Chajut, E., & Algom, D. (2012). Accurate visuomotor control below the perceptual threshold of size discrimination. *PLoS ONE*, 7(4), e36253. DOI: 10.1371/journal.pone.0036253.

BOOK CHAPTERS:

1. Ganel, T. & **Freud, E.** (2011). Weber's law during grasping. In D. Algom, D. Zakay, E. Chajut, S. Shaki, Y. Mama, & V. Shakuf (Eds.). Fechner Day 2011. Raanana, Israel: International Society for Psychophysics.

TALK PRESENTATION OF PAPERS IN CONFERENCES (REFEREED)

Trainees (at the time of project) are indicated with a solid underline

1. Ahmad Z., Behrmann M, Patterson C., **Freud E.** A Unilateral Cortical Resection of Both Visual Pathways Alters Action but not Perception. Talk presented at Neuromatch 3.0. Virtual Conference, October 2020.
2. **Freud E.** The role of the dorsal pathway in object perception. Talk presented at the Cognitive Neuroscience society (CNS). Session co-organizer and chair. Virtual Conference, May 2020
3. **Freud E.** & Behrmann M. Altered large-scale cortical organization of shape processing in visual agnosia. Talk presented at the Society for Neuroscience (SfN) Chicago, IL, October 2019
4. Behrmann M., Kastner S., Pinsk M. A. & **Freud E.** Typical functional selectivity and connectivity in category-selective visual cortex in children with unilateral ventral cortex resection. Talk presented at the Society for Neuroscience (SfN) Chicago, IL, October 2019
5. **Freud E.**, & Behrmann M. Preserved shape sensitivity in the dorsal pathway of a visual agnosia patient. Data Blitz talk presented at the Cognitive Neuroscience Society (CNS), San Francisco, CA, March 2019
6. **Freud E.**, Culham J.,& Behrmann M. Differential sensitivity to whole vs. scrambled objects in ventral and dorsal pathways. Talk at the Society for Neuroscience (SfN), San-Diego, CA, November 2016.
7. **Freud E.**, Macdonald S. N., Chen J., Quinlan D. J., Goodale M.A, Culham J. C. Getting a grip on reality :Grasping movements directed to real objects and images rely on dissociable neural representations. Talk at the CAPnet-CPS CAN-ACN SATELLITE SYMPOSIUM "Action & Perception: Cognition, Coding and Clinical Populations" Toronto, ON, May 2016
8. **Freud E.**, Ganel T., Avidan G.,& Behrmann M. Object 3D structure representations in the dorsal pathway is not dependent on the ventral pathway: Evidence from visual agnosia. Talk at the Society for Neuroscience (SfN), Chicago, IL, October 2015.

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9. **Freud E.**, Ganel T., Avidan G., & Behrmann M. Intact implicit representation of object 3D structure in object agnosia. Talk at the Vision Scientific Society Annual Meeting (VSS), St. Pete Beach, FL, May 2015.
10. **Freud E.**, Rosenthal G., Ganel T. & Avidan G. The neural signature of spatial uncertainty. Talk at the Annual meeting of the Israel Society for Neuroscience (ISFN), Eilat, Israel, December, 2013
11. **Freud E.**, Hadad B-H., Avidan G. & Ganel T. Evidence for Similar Early but Not Late Representation of Possible and Impossible Objects. Talk at the Annual meeting of the Israel Society for Neuroscience (ISFN), Eilat, Israel, December, 2012

INVITED TALKS AND SEMINARS

<i>Location</i>	<i>Date</i>
Applied Face Cognition Lab talk series (virtual), Fribourg, Switzerland	April 2021
Rotman Research Institute Rounds, Baycrest (virtual), Toronto, Canada	January 2021
Quantitative methods seminar, York University, Toronto, Canada	November 2019
Hurvitz Brain Sciences Research Program, Sunnybrook Research Institute, Toronto, Canada	June 2019
Google Brain Team, Toronto, Canada	March 2019
IRTG Brain in Action program, York University, Toronto, Canada	November 2018
Tel-Aviv University, Tel-Aviv, Israel	December 2017
University of Haifa, Haifa, Israel	December 2017
Hebrew University, Jerusalem, Israel	December 2017
Ben-Gurion University of the Negev, Beer-Sheva, Israel	December 2017
University of Toronto, Toronto, Canada	September 2016
University of Western Ontario, London, Canada	November 2014
Carnegie Mellon University, Pittsburgh, USA	July 2014
New-York University, New York, USA	July 2013
Ben-Gurion University of the Negev, Beer-Sheva, Israel	February 2013

POSTER PRESENTATION OF PAPERS IN CONFERENCES (REFEREED)

* *Freud Lab trainees (at the time of project) are indicated with a solid underline*

1. Ahsan T., Bolton K., Chiasson L. & Wilcox L. M., **Freud E.** Perceived depth modulates the precision of visual processing. Poster presented at the Vision Scientific Society Annual Meeting (VSS), Online, May 2020
2. Ahmad Z., Hadad B.S. & **Freud E.** Reduced functional dissociation between action and perception in individuals with Autism. Poster presented at the Vision Scientific Society Annual Meeting (VSS), Online, May 2020

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3. Ahsan T., Bolton K., Chiasson L. & Wilcox L. M., **Freud E.** Perceived depth modulates the precision of visual processing. Poster presented at the Lake Ontario Visionary Establishment (LOVE) Niagara Falls, ON, February 2020
4. Ahmad Z., Hadad B.S. & **Freud E.** Reduced functional dissociation between action and perception in individuals with Autism. Poster presented at the Lake Ontario Visionary Establishment (LOVE) Niagara Falls, ON, February 2020
5. Srikanth A., Davidson E., Hadad B.S., Ganel T. & **Freud E.** Functional dissociation between action and perception in early childhood. Poster presented at the Lake Ontario Visionary Establishment (LOVE) Niagara Falls, ON, February 2020
6. Ruttle J., Stajduhar A., Stevens D. & **Freud E.**, Shape sensitivity along the dorsal and ventral pathways is observed for novel and familiar objects. Poster presented at the Lake Ontario Visionary Establishment (LOVE) Niagara Falls, ON, February 2020
7. Mallo A. M. S., **Freud E.**, Patterson C. & Behrmann M. Bilateral changes to white matter structure following unilateral resection in pediatric patients. Poster presented at the Society for Neuroscience (SfN) Chicago, IL, October 2019
8. **Freud E.**, Culham J., Plaut D. & Behrmann M. The large-scale organization of object processing in the ventral and dorsal pathways. Poster presented at the Vision Scientific Society Annual Meeting (VSS), St. Pete Beach, FL, May 2017.
9. **Freud E.** & Behrmann M. Late maturation of fine-grained of object 3D structure representation. Poster presented at the Vision Scientific Society Annual Meeting (VSS), St. Pete Beach, FL, May 2016.
10. **Freud E.**, Ganel T. & Avidan G. Coarse to fine-grained representation of object 3D structure. Poster presented Society for Neuroscience (SfN), Washington D.C., November 2014.
11. **Freud E.**, Rosenthal G., Ganel T. & Avidan G. The neural signature of spatial uncertainty. The Networked Brain. Satellite event to the SfN conference, San Diego, CA, November 2013.
12. **Freud E.**, Hadad B-H., Avidan G. & Ganel T. (2013). Perceptual Representation of Impossible Objects. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), Naples, FL, May 2013.
13. **Freud E.**, Avidan G., & Ganel T. Holistic representation of impossible objects. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), Naples, FL, May 2012.

EDITORIAL ACTIVITIES:

Ad hoc guest editor:

- eLIFE

Ad hoc reviewer journals (alphabetic order):

- Animal Cognition
- Brain and Behavior
- Brain Structure and Function
- Cerebral Cortex
- Cognition
- Cortex
- Developmental Psychology
- eLIFE
- Experimental Brain Research
- Frontiers in Psychology
- Journal of Animal Cognition
- Journal of Autism and Developmental Disorders
- Journal of Cognitive Neuroscience
- Journal of Neuropsychology
- Journal of Neuroscience
- NeuroImage
- PLoS One
- PNAS
- Psychological Science

Ad hoc reviewer of research grant applications:

- Israel Science Foundation (ISF)
- Natural Sciences and Engineering Research Council Discovery Grant (NSERC)
- The Netherlands Brain Foundation (Hersenstichting)

RESEARCH IMPACT AND KNOWLEDGE MOBILIZATION:

- Coverage on Stajduhar et al. (2021) – *The National* – CBC (2021) - www.cbc.ca/news/technology/children-masks-language-speech-faces-1.5948037
- Interviews about Freud et al. work on face perception in the era of COVID-19 (non-exhaustive list, coverage from over 50 news outlet):
 - *The National* – CBC (2021) (<https://www.cbc.ca/player/play/1858682947761/>)
 - *The New-York Times* (2020) (<https://www.nytimes.com/2020/08/31/health/covid-masks-face-blindness.html>)
 - *The Cut* (2020) (<https://www.thecut.com/2020/09/covid-masks-make-facial-recognition-difficult.html>)

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- *US news (2020)* (<https://www.usnews.com/news/health-news/articles/2020-12-30/masks-do-make-faces-harder-to-recognize-study-shows>)
- *Reshet 13 TV News (2020)* (<https://13news.co.il/item/news/domestic/health/hug-during-corona-1136650/>) (Hebrew)
- Interview in *Popular Science* magazine (2020) - This staircase goes on forever. Or does it? (<https://www.popsoci.com/story/science/head-trip-stairs-illusion/>)
- Interviews about Liu, Freud et al.- Perceptual function and category-selective neural organization in children with resections of visual cortex
 - *CTV news (2019)* (<https://www.ctvnews.ca/video?clipId=1703271>)
 - *Technology Network (2019)* (<https://www.technologynetworks.com/neuroscience/news/childrens-brains-dramatically-rewire-to-retain-perception-after-epilepsy-surgery-320228>)
- Biomedical Picture of the Day (<http://bpod.mrc.ac.uk/archive/2018/2/4#.WnclBwXujaw.twitter>)

VI. FUNDING

CURRENT:

<i>Date</i>	<i>Title</i>	<i>Source</i>	<i>Total</i>	<i>Role</i>
2019-2024	Uncovering the nature of object representations in the human dorsal visual cortex	Natural Sciences and Engineering Research Council (Discovery)	C\$177,500	PI
2019-2021	Neuropsychological approach for uncovering the relative contribution of parietal cortex to spatial perception and visuomotor control in neurological patients”	VISTA – Vision Science to Application, York University	C\$50,000	PI
2019	Perception and action in autism spectrum disorder	Distinguish travel grant from the Vision – Science to Application (VISTA) program	C\$10,000	PI
2018-2023	Annual allowance	VISTA – Vision Science to Application York University	C\$125,000	PI

Past:

<i>Date</i>	<i>Title</i>	<i>Source</i>	<i>Total</i>	<i>Role</i>
2020	Behind the mask—the effect of face masks on perception and memory.	VISTA Research Grant Covid-19 Accelerator, York University	C\$5,715	PI
2018	The representation of Weber's law in the human brain	Faculty of Health, York University	C\$4,995	PI

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2015	Prof. Rahamimoff Travel Grant for Young Scientists	United States- Israel Binational Science Foundation (BSF)	\$4,000	PI
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VII. TEACHING

UNDERGRADUATE TEACHING

<i>Course</i>	<i>Format</i>	<i>Enrolment</i>	<i>Years</i>
PSYC 4080 - Neuropsychology of Abnormal Behavior	Classroom	20	2018
PSYC 4125 - fMRI Methods - Neuroimaging of Cognition	Classroom	20 (10 UG)	2019-
PSYC 4001 Honours Thesis	Direct Supervision	2-3	2020-

I developed PSYC 4215, the first class that offers hands-on fMRI training to undergraduate students at York University.

UNDERGRADUATE SUPERVISION

<i>Date</i>	<i>Name</i>	<i>Title</i>	<i>Present Position</i>	<i>Job title</i>
2018-2019	Tasfia Ahsan	Dorsal pathway representation	MA student Psychology (York University)	Research Assistant
2018-2019	Zoha Ahmad	Dorsal pathway representation	MSc student Biology (York University)	Research Assistant
2018-2020	Kathryn Bolton	Depth perception	MA student Clinical Psychology (Ryerson)	Research Assistant
2019-2020	Emily Davidson	Visuomotor control	MA student Neuroscience (Western University)	Research Assistant
2019-2020	Krista Chiasson	Depth perception	Unknown	Research Assistant
2019-	Ashish Srikanth	Visuomotor control	Undergraduate student	Research Assistant
2019-	Andreja Stajduhar	Face Perception	Undergraduate student	Honours Thesis
2020-	David Eldridge	Working memory	Undergraduate student	Honours Thesis

GRADUATE TEACHING

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<i>Course</i>	<i>Format</i>	<i>Enrolment</i>	<i>Years</i>
PSYC 6253 – Fundamental of Neuroscience II	Classroom	20	2020-

GRADUATE SUPERVISION

<i>Date</i>	<i>Name</i>	<i>Degree</i>	<i>Department</i>	<i>Topic</i>	<i>Present Position</i>
2019-	Tasfia Ahsan	M.A.	Psychology	Depth Perception	M.A.
2019-	Zoha Ahmad	MS.c.	Biology	Visuomotor control	MS.c.
2020-	Rachel Moreau	M.A.	Psychology Co-supervision	Symmetry perception	M.A.
2020-	Gaelle Nsamba Luabeya	Ph.D.	Biology Co-supervision	Neural mechanisms of Object placement	Ph.D.
2019-	Krista Mitchnick	Ph.D.	Psychology Co-supervision	Pattern Separation	Ph.D.

THESIS COMMITTEES

<i>Date</i>	<i>Name</i>	<i>Degree</i>	<i>Department</i>	<i>Role</i>
2018-2019	George Tomou	M.A.	Psychology	Committee Member
2018-2020	Gaelle Nsamba Luabeya	MS.c.	Biology	Committee Member
2020-	Amir Zaire	Ph.D.	Psychology	Committee Member
2020-	Stevenson Baker	Ph.D.	Psychology	Committee Member
2020-	Adam Burnnet	Ph.D.	Psychology	Committee Member

IX. PROFESSIONAL SERVICE

PROVINCIAL OR NATIONAL LEVEL

<i>Date</i>	<i>Position</i>	<i>Role</i>
2020	Symposium organization for the Cognitive Neuroscience Society (CNS)	Chair & co-organizer
2019- ongoing	Organizing committee - Annual Lake Ontario Visionary Establishment (L.O.V.E)	Member
2018- ongoing	steering committee CAPnet conference	Member

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2015	Nano-Symposium organization for the Society for Neuroscience (SfN)	Chair & organizer
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UNIVERSITY LEVEL

<i>Date</i>	<i>Position</i>	<i>Role</i>
2021	Centre for Vision Research Conference committee	Member
2020- ongoing	Centre for Vision Research website committee	Chair
2020- ongoing	MRI user committee	Member
2019- ongoing	Steering committee – Centre for Vision Research	Member
2019	VISTA grant reviewing committee	Member

DEPARTMENTAL LEVEL

<i>Date</i>	<i>Position</i>	<i>Role</i>
2021	Tenure & Promotion committee	File preparation coordinator
2019- ongoing	Area Head – Brain, Behavior and Cognitive Sciences, Department of Psychology	Area head
2019- ongoing	Steering committee-Graduate Diploma in Neuroscience	Member
2018 - 2020	Undergraduate Studies Committee, Department of Psychology	Member