Joseph Francis Xavier DeSouza

A. PERSONAL:

Associate Professor
Centre for Vision Research
York University
4700 Keele Street
Toronto, ON, CANADA, M3J 1P3
Google Scholar Profile,

http://www.joeLAB.com
416.736.2100 x22946
x31092 lab
Fax: 416.736.5857
desouza@yorku.ca

1. DEGREES:

Ph.D.	University of Western Ontario	Neuroscience	2001
M.Sc.	University of Western Ontario	Neuroscience	1996
B.A. Honours	University of Western Ontario	Psychology	1994

2. EMPLOYMENT:

July 2013 – present	**Associate Professor**	*Departments of Psychology & Biology, Graduate Program in Interdisciplinary Studies, Neuroscience Graduate Diploma Program, York University, Canada*
July 2016 – June 2017	**Director**	*Graduate Program in Interdisciplinary Studies, York University, Canada*
July 2006 – 13	**Assistant Professor**	*Departments of Psychology & Biology, Neuroscience Graduate Diploma Program, York University, Canada*
Sept 2004 – 06	**Postdoctoral Research Fellow (PDF)**	*Doug Crawford's Visuomotor Neuroscience laboratory, York University, Canada*
Aug 2001 – 04	**PDF**	*Stefan Everling's Laboratory for Neural Circuits & Cognitive Control, Centre for Brain and Mind, Robarts Research Institute, London, Canada*

3. RESEARH CENTRE CREATION:

CANDR	Chigamik Health Centre Midland, ON	2016

B. SCHOLARLY AND PROFESSIONAL CONTRIBUTIONS:

1. PUBLICATIONS [total lifetime citations of 4498 - in square brackets]

1. Bearss KA & DeSouza JFX. (2021) Parkinson's Disease progression slowed using dance learning over 3-years compared to controls. Brain Science, 11(7), 895. https://doi.org/10.3390/brainsci11070895
2. Rabinovich D, Garreto NS, Arakaki T & DeSouza JFX (2021). A High Dose Tango Intervention for People with Parkinson's disease (PwPD). Advances in Integrative Medicine. https://doi.org/10.1016/j.aimed.2021.07.005
3. Rogerson RG, Barnstaple R & DeSouza JFX (2021). Neural Correlates of a Trance Process and Alternative States of Consciousness in a Traditional Healer. Brain Science, 11(4), 497. https://doi.org/10.3390/brainsci11040497
4. Fontanesi C & DeSouza JFX (2021). Beauty That Moves: Dance for Parkinson's Effects on Affect, Self-Efficacy, Gait Symmetry, and Dual Task Performance. Frontiers in Psychology, https://doi.org/10.3389/fpsyg.2020.600440

5. Di Nota PM, Olshansky MP & DeSouza JFX (2020). Expert Event Segmentation of Dance Is Genre-Specific and Primes Verbal Memory. Vision, 4(3), 35, https://doi.org/10.3390/vision4030035
6. Barnstaple R, Protzak J, DeSouza JFX & Gramann K (2020). Mobile brain/body Imaging in dance: A dynamic transdisciplinary field for applied research. European Journal of Neuroscience, https://doi.org/10.1111/ejn.14866 [2]
7. Leger C, Herbert M & DeSouza JFX (2020). Non-motor Clinical and Biomarker Predictors Enable High Cross-validated Accuracy Detection of Early PD but Lesser Cross-validated Accuracy Detection of Scans Without Evidence of Dopaminergic Deficit. Frontiers in Neurology, https://doi.org/10.3389/fneur.2020.00364 [3]
8. Ciantar S, Bearss KA, Bar RJ, Levkov G & DeSouza JFX (2019) Investigating Affective and Motor Improvements with Dance in Parkinson's Disease. *bioRxiv In Review to Movement Disorders Clinical Practice*-MDS-20-0054) https://www.biorxiv.org/content/10.1101/665711v1 [3]
9. Barnstaple R, Fontanesi, C & DeSouza JFX (*Submitted*) Looking in the mirror: Limits of Mirror Neuron Theory (MNT) and applications for Dance/Movement Therapy (DMT). *American Journal of Dance Therapy*.
10. Blohm G, Alikhanian H, Gaetz, W, Goltz HC, DeSouza JFX, Cheyne DO & Crawford JD (2019) Neuromagnetic signatures of the spatiotemporal transformation for reaching. *Neuroimage, 197, 306-391* https://doi.org/10.1016/j.neuroimage.2019.04.074. [3]
11. Cohen R, Bearss KA, & DeSouza JFX (2019) Frequency-Specific Biomarkers in Neurodegenerative Disorders: Implications of Alpha and Beta Oscillations in Motor Behaviour. *Journal of Neurology and Neuromedicine*, *4(3)*. https://pdfs.semanticscholar.org/99ba/8a81132ec21898b0fb7d2e1be06bd57bc201.pdf
12. Barnstaple R & DeSouza JFX (2019) Dance and (neural) diversification: Can creative movement and motor learning slow neurodegeneration and promote neurogenesis? *Your Brain on Art*, *Cancun. Mexico.*
13. Barnstaple R, Hackey ME, Fontanesi, C & DeSouza JFX (2018) Mechanisms of dance in the rehabilitation of neurodegenerative conditions. *Brain, Body, Cognition*, 8(1):17-28.
14. Barnstaple R & DeSouza JFX (2019) Dance and Neurorehabilitation – Mixed-methods research models. *Functional Neurology, Rehabilitation, and Ergonomics*, 7, 1.
15. Martin K-L, Jindani, F, Turner, TE & DeSouza JFX (2018) Visual signals suppress Alpha Power Increases & Frequency Decreases before and after a Mindfulness Meditation Intervention for Problem Gambling. *bioRxiv*. http://dx.doi.org/10.1101/359257. [1]
16. Bearss K, McDonald KC, Bar RJ & DeSouza JFX (2017) A 12 week Dance Intervention for Parkinson's Disease: motor functions and quality of life. Advances in Integrative Medicine. http://dx.doi.org/10.1016/j.aimed.2017.02.002 [22]
17. Leger C & DeSouza JFX (2017) Migraine Modulation and Debut After Percutaneous Atrial Septal Defect Closure: a Review. Frontiers in Neurology: Headache Medicine and Facial Pain. 8:68 http://dx.doi.org/10.3389/fneur.2017.00068 [10]
18. Di Nota PM, Chartrand J, Levkov GR, Montefusco-Siegmund R & DeSouza JFX (2017) Experience-Dependent Modulation of Alpha and Beta During Action Observation and Motor Imagery. *BMC Neuroscience.* 18(1): 28. http://dx.doi.org/10.1186/s12868-017-0349-0 [26]
19. Bar RJ & DeSouza JFX (2016) Tracking plasticity: Effects of long term rehearsal in experts encoding music to movement. *PLoS ONE*, *11(1)*, e0147731. http://dx.doi.org/10.1371/journal.pone.0147731 [52]

https://www.altmetric.com/details/5063069/#score

20. Di Nota PM, Levkov G, Bar RJ & DeSouza JFX (2016) Lateral occipitotemporal cortex (LOTC) activity is greatest while viewing dance compared to visualization and movement: learning and expertise effects. *Experimental Brain Research 234 (7)* 2007-23. http://dx.doi.org/10.1007/s00221-016-4607-7 [14]
21. Chan JL, Kucyi A & DeSouza JFX (2015) Stable Task Representations under Attentional Load Revealed with Multivariate Pattern Analysis of Human Brain Activity. *Journal of Cognitive Neuroscience*, 1-12. http://dx.doi.org/10.1162/jocn_a_00819 [5]

22. Dhami P, Moreno S & DeSouza, JFX (2015) New Framework for Rehabilitation - Fusion of Cognitive and Physical Rehabilitation: The Hope for Dancing. *Frontiers in Psychology*, *5*, 1478-1471. http://dx.doi.org/10.3389/fpsyg.2014.01478 [100]
23. Barnett-Cowan M, Soeizi M & DeSouza JFX (2015) Visual attention at the tip of the tongue. *i-Perception*, *6*(1), 1-4. http://dx.doi.org/10.1068/i0697sas [1]
24. Olshansky MP, Bar RJ, Fogarty M & DeSouza JFX (2015) Supplementary motor area (SMA) and auditory cortex activation in an expert break-dancer during visualized dance to music. *Neurocase, 21(5)*, 607-17. http://dx.doi.org/10.1080/13554794.2014.960428 [23]
25. Kshtriya S, Barnstaple R, Rabinovich DB & DeSouza, JFX (2015) Dance and Aging: A Critical Review of Findings in Neuroscience. *American Journal of Dance Therapy,* http://dx.doi.org/10.1007/s10465-015-9196-7 [34]
26. Todorow M, DeSouza JFX, Banwell B & Till C (2014) Interhemispheric Cooperation in Global-Local Visual Processing in Pediatric Multiple Sclerosis. *Journal of Clinical and Experimental Neuropsychology*, http://dx.doi.org/10.1080/13803395.2013.867013 [11]
27. Chan JL & DeSouza JFX (2013) The Effects of Attentional Load on Saccadic Task Switching. *Experimental Brain Research, 227*, 301-9. http://dx.doi.org/10.1007/s00221-013-3452-1 [23]
28. Alikhanian H, Crawford JD, DeSouza JFX, Cheyne DO & Blohm G (2013) Machine learning approach for localizing active brain areas using magnetoencephalography. *Frontiers in Neuroscience, 7*, 13. http://dx.doi.org/10.3389/fnins.2013.00073 [14]
29. Di Noto PM, Uta S & DeSouza JFX (2013) Eye exercises enhance accuracy and letter recognition, but not reaction time, in a modified rapid serial visual presentation task. *PLoS ONE*, *8(3)*, e59244. http://dx.doi.org/10.1371/journal.pone.0059244
30. Pynn LK & DeSouza JFX (2013) The function of efference copy signals: implications from symptoms of Schizophrenia. *Vision Research, 76*, 124-33. http://dx.doi.org/10.1016/j.visres.2012.10.019 [91]
31. DeSouza JFX, Ovaysikia S & Pynn LK (2012) Correlating behavioural responses to fMRI signals from human prefrontal cortex: Examining cognitive processes using task analysis. *Journal of Visualized Experiments, 64*, e3237, http://dx.doi.org/10.3791/3237 [16] [viewed 5285 times online]
32. DeSouza JFX, Keith GP, Yan X, Blohm G, Wang H & Crawford JD (2011) Intrinsic reference frames of superior colliculus visuomotor receptive fields during head-unrestrained gaze shifts. *Journal of Neuroscience, 50*, 18313-26, http://dx.doi.org/10.1523/JNEUROSCI.0990-11.2011 [20]
33. Ovaysikia S, Chan JL, Tahir KA & DeSouza JFX (2011) Word wins over Face: Emotional Stroop effect activates the frontal cortical network. *Frontiers in Human Neuroscience, 4*, 234-43. http://dx.doi.org/10.3389/fnhum.2010.00234 [52] [viewed online 31,286 times] [commentary on Sept 28, 2012 doi: 10.3389/fnins.2012.00141]
34. Keith GP, DeSouza JFX, Yan X & Crawford JD (2009) A method for mapping response fields and determining intrinsic reference frames of single-unit activity: applied to 3D head-unrestrained gaze shifts. *Journal of Neuroscience Methods, 180*, 171-84. http://dx.doi.org/10.1016/j.jneumeth.2009.03.004 [17]
35. Johnston K, DeSouza JFX & Everling S (2009) Monkey prefrontal cortical pyramidal and putative interneurons exhibit differental patterns of activity between prosaccade and antisaccade tasks. *Journal of Neuroscience, 29*, 5516-24. http://dx.doi.org/10.1523/JNEUROSCI.5953-08.2009 [50]
36. Fernandez-Ruiz J, Goltz HC, DeSouza JFX, Vilis T & Crawford JD (2007) Human parietal "reach region" encodes intrinsic visual direction, not extrinsic movement direction, in a visual-motor dissociation task. *Cerebral Cortex, 17*, 2283-92. http://dx.doi.org/10.1093/cercor/bhl137 [115]
37. Everling S & DeSouza JFX (2005) Rule-dependent activity for pro-saccades and anti-saccades in the primate prefrontal cortex. *Journal of Cognitive Neuroscience, 17*, 1483-96. http://dx.doi.org/10.1162/0898929054985455 [78]
38. DeSouza JFX & Everling S (2004) Focused attention modulates visual responses in primate prefrontal cortex. *Journal of Neurophysiology, 91*, 855-62. http://dx.doi.org/10.1152/jn.00273.2003 [15]
39. Brown MRG, DeSouza JFX, Ford K, Goltz HC, Goodale MA & Everling S (2004) Comparison of memory- and visually-guided saccades using event-related fMRI. *Journal of Neurophysiology, 91*, 873-89. http://dx.doi.org/10.1152/jn.00382.2003 [107]

40. Culham JC, Danckert SL, DeSouza JFX, Gati JS, Menon RS & Goodale MA (2003) Visually-guided grasping produces activation in dorsal but not ventral stream brain areas. *Experimental Brain Research, 153*, 180-9. http://dx.doi.org/10.1007/s00221-003-1591-5 [695]
41. DeSouza JFX, Menon RS & Everling S (2003) Neural correlates for preparatory set associated with prosaccades and anti-saccades in humans investigated with event-related fMRI. *Journal of Neurophysiology, 89*, 1016-23. http://dx.doi.org/10.1152/jn.00562.2002 [231]
42. Goltz HC, DeSouza JFX, Menon RS, Tweed DB & Vilis T (2003) Interaction of retinal image and eye velocity in motion perception. *Neuron, 39*, 569-76. http://dx.doi.org/10.1016/S0896-6273(03)00460-4 [18]
43. DeSouza JFX, Dukelow SP & Vilis T (2002) Eye position signal modulates early dorsal and ventral visual areas. *Cerebral Cortex, 12*, 991-7. http://dx.doi.org/10.1093/cercor/12.9.991 [58]
44. Dukelow SP, DeSouza JFX, Culham JC, van den Berg AV, Menon RS & Vilis T (2001) Distinguishing subregions of the human MT+ complex using visual fields and pursuit eye movements. *Journal of Neurophysiology, 86*,1991-2000. [266]
45. DeSouza JFX, Dukelow SP, Gati JS, Menon RS, Andersen, RA & Vilis T (2000) Eye position signal modulates a human parietal pointing region during memory-guided movements. *Journal of Neuroscience, 20*, 5835-40. [156]
46. Connolly JD, Goodale MA, DeSouza JFX, Menon RS & Vilis T (2000) A comparison of frontoparietal fMRI activation during anti-saccades and anti-pointing. *Journal of Neurophysiology, 84*, 1645-55. [343]
47. Somani RAB, DeSouza JFX, Tweed D & Vilis T (1998) Visual test of Listing's law during vergence. *Vision Research, 38*, 911-23. http://dx.doi.org/10.1016/S0042-6989(97)00228-9 [45]
48. Somani RAB, Hutnik C, DeSouza JFX, Tweed D, Nicolle D & Vilis T (1998) Using a synoptophore to test Listing's law during vergence in normal subjects and strabismic patients. *Vision Research, 38*, 3621-31. http://dx.doi.org/10.1016/S0042-6989(98)00057-1 [5]
49. Marotta JJ, DeSouza JFX, Haffenden AM & Goodale MA (1998) Does a monocularly presented size-contrast illusion influence grip aperture? *Neuropsychologia, 36*, 491-7. http://dx.doi.org/10.1016/S0028-3932(97)00154-1 [99]
50. DeSouza JFX, Nicolle DA & Vilis T (1997) Task-dependent changes in the shape and thickness of Listing's plane. *Vision Research, 37*, 2271-82. http://dx.doi.org/10.1016/S0042-6989(97)00023-0 [21]
51. Aglioti SM, DeSouza JFX & Goodale MA (1995) Size-Contrast illusion deceive the eye but not the hand. *Current Biology, 5*, 679-85. http://dx.doi.org/10.1016/S0960-9822(95)00133-3 [1303]
52. Cain DP, Saucier D, Hargreaves E, Wilson E & DeSouza JFX (1993) Polypropylene pellets as an inexpensive reusable substitute for milk powder in the Morris water maze. *Journal of Neuroscience Methods, 49*, 193-7. http://dx.doi.org/10.1016/0165-0270(93)90124-A [27]

BOOK CHAPTERS:

Bearss K, DeSouza JFX (In Press) Plasticity in damaged multisensory networks. In: Synaptic Plasticity. InTech. https://cdn.intechopen.com/pdfs/53848.pdf

Barnstaple RE, Rabinovich D, Dhami P, DeSouza JFX (In Press) Can expert dancers be a springboard to examine neurorehabilitation via dance? In: Oxford Anthology of Hip Hop Dance Studies (Fogarty M, Johnson I, eds). Oxford: Elsevier.

Chan JL, Kucyi A, DeSouza JFX (2015) Oculomotor system. In: Brain Mapping: An Encyclopedic Reference (Toga AW, Mesulam MM, Kastner S, eds). Oxford: Elsevier.

Ovaysikia S, Hoover AEN, Tahir K, Tharani A & DeSouza JFX (2009) How the prefrontal cortex is thought to be involved in response suppression. In Jenkins MRM & Harris LR (Eds.), *Cortical Mechanisms of Vision*. Cambridge University Press.

DeSouza JFX & Vilis T (1996) The shape of Listing's plane. In Fetter M, Misslisch H & Tweed D (Eds.), *Three-dimensional Kinematics of Eye, Head and Limb Movements* (pp. 101 – 106). Amsterdam: Harwood Academic Publishers.

ABSTRACTS: [*referreed], (Trainees are **bold**)

1. **Bearss KA** & DeSouza JFX (2020). Reductions in Parkinson's Disease symptoms and alpha rhythm modulations as a result of multinetwork learning to music over 3-years. *Neuromatch 3.0 virtual conference*
2. DeSouza JFX, **Barnstaple R**, **Jaufmann L**, Jeung S, Protazak J, & Gramann K (2020) Multinetwork Visuomotor training to synth-music investigated with Mobile EEG. *Neuromatch 3.0 virtual conference.*
3. **Bearss, K. A**., & DeSouza J. F. X. (May 2020). Parkinson's Disease symptom reductions and alpha rhythm modulations as a result of multinetwork learning to music over 3-years. *Neuromatch 2.0 virtual conference*.
4. DeSouza JFX, **Savija N**, & **Barnstaple R** (2019) Visual signals removed by opaque contact lens blocks alpha oscillations: resting state EEG effects. *Vision Sciences Society, 18*.
5. **Ciantar SR**, **Bearss KA**, **Barnstaple R**, **Esser M**, **Srinivasa SA**, **Morson O**, **Chosang T**, **Bar RJ**, **Levkov G**, & DeSouza JFX (2019) Benefits of dance in Parkinson's disease: Improvements in motor and nonmotor symptoms. Trent Aging, Peterborough, Canada
6. **Ciantar SR**, **Bar RJ**, **Levkov G**, **Barnstaple R**, DeSouza JFX, **Chosang T**, **Srinivasa SA** & **Morson O** (2019). Functional brain changes and improvements in mood seen with multisensory training in Parkinson's Disease. International Conference on Psychological Sciences. Paris, France
7. DeSouza JFX & **Bearss K** (2018) Progression of Parkinson's disease symptoms halted using dance over 3-years as assessed with MDS-UPDRS. *Neuroscience Meeting Planner. San Diego: Society for Neuroscience Abstracts*. Online. https://abstractsonline.com/pp8/#!/4649/presentation/22209
8. **Barnstaple R**, DeSouza JFX, Lopez-Ortiz C, Fontenasi C, Hackney M. (2018) Mechanisms of dance in the rehabilitation of neurodegenerative conditions. MOVEMENT: Brain, Body, Cognition International Conference, Harvard Medical School, Boston
9. **Ciantar SR**, **Bearss K**, **Barnstaple R**, **Gurbaxani K**, **Esser M**, **Srinivasa SA**, **Morson O**, **Chosang T**, **Kabeer A**, **Bar RJ**, **Levkov G** & DeSouza JFX (2018) Dance therapy for Parkinson's Disease: Improvements in motor and nonmotor symptoms over time. 14th Annual NeuroMusic Conference "Music and Multimedia: From Song to Sonification". Hamilton, Canada
10. **Barnstaple R** & DeSouza JFX (2018) Neurorehabilitation associated with dance therapy quantified using mixed-methods and EEG. Third International Mobile Brain/Body Imaging Conference, Berlin, Germany
11. **Cohan R**, **Bearss K**, **Barnstaple R**, **Dhami P**, **Maguire S**, DeSouza JFX. (2018) Shift in Parkinson's Disease Rehabilitation: A neuroimaging approach to quantify the efficacy of dance as a multimodal neurorehabilitation intervention. GTA Rehab Network's Best Practices Day 2018: Translating Best Practices into Action, Chestnut Conference Centre, Toronto.
12. **Ciantar SR**, **Bar RJ**, **l**, **Barnstaple R**, DeSouza JFX. (2018). Investigating mood changes across learning in people with Parkinson's disease: subcallosal cingulate area CG25 and the Geriatric Depression Scale. Neuroinformatics, Montreal, QC
13. **Ciantar SR**, **Bearss K**, **Bar RJ**, **Levkov G**, **Barnstaple R**, **Chosang T**, **Srikanth A**, **Morson O**, & DeSouza JFX. (2018) Multisensory training associated with neurophysiological and affective changes in Parkinson's Disease. *Sixth Biennial Conference on Resting state and Brain Connectivity*, Montreal, Qc.
14. **Gunduz N**, **Barnstaple R**, & DeSouza JFX. (2017) Neuroimaging putative biomarkers for the prodromal phase, diagnosis and progression of Parkinson's disease modelled with the virtual brain. *CAPnet-CPS Satellite: Perception, Action and their interactions: Data, Models and Dysfunction*, Montreal, Qc.
15. **Barnstaple R** & DeSouza JFX. (2017) Change the Pain: Assessing the Efficacy of Dance Therapy for Chronic Pain through neuroimaging. ADTA Conference, San Antonio TX
16. **Barnstaple R**, **Rabinovich D**, **Cohan R**, **Bearss K**, Bar RJ, **Morrison J**, & DeSouza JFX. (2017) Dance and neurorehabilitation quantified using neuroimaging: rsEEG & fMRI. *International Multisensory Research Forum*, Nashville, Tennesse.

17. **Rabinovich D**, DeSouza JFX, Arakaki T, Rodriguez Quiroga S, Litvak V, Firmani JM, Garreto NS, *(*2017). Intensive short term dance intervention in Parkinson's Disease. 21st International Congress, *Parkinson and Movement Disorders, Vancouver, BC.*
18. **Barnstaple R** & DeSouza JFX. (2017) Dance and Neurorehabilitation - Mixed-methods research models. *Journal of Functional Neurology, Rehabilitation, and Ergonomics*. Nova Science Publishers. Editor-in-chief: Gerry Leisman.
19. **Di Nota PM, Bearss K**, **Dhami P**, **Levkov GR**, **Olshansky MP**, **Bar RJ**, and DeSouza JFX (2016). Health and cognitive promotion through dance: evidence from expert dancers, people with Parkinson's disease, and controls. *Cell Symposium, Society for Neuroscience Annual meeting, San Diego, CA*.
20. Blohm G, Alikhanian H, Gaetz WC, Goltz HC, DeSouza JFX, Cheyne DO, Crawford JD (2016) MEG shows a progressive sensory-to-motor transformation for reaching in cortical space and time. *Neuroscience Meeting Planner. San Diego: Society for Neuroscience Abstracts*. Online.
21. **Di Nota PM**, **Olshansky MP** & DeSouza JFX (2016). Investigating the influence of expertise and familiarity on segmentation of dance movements and working memory. *Neuroscience Meeting Planner. San Diego: Society for Neuroscience Abstracts*. Online.
22. **Rabinovich D**, **Harrar V**, **Bar RJ,** & DeSouza JFX (2016). The auditory cortex changes across learning choreography with Parkinson's Disease: fMRI changes across 8 months and a documentary – SYNAPSE DANCE. *Journal of Parkinson's Disease*, Vol. 6, Supplement 1.
23. **Bar RJ,** Lapum JL, Dionne M, Kalia LV & DeSouza JFX (2016) Dance and Parkinson's Disease: A Research Dissemination Project. *World Parkinson Congress*, Portland. *Journal of Parkinson's Disease*, Vol. 6, Supplement 1.
24. **Simone S**, **Bearss K, Maguire SE, Martin K-L, Luabeya GN, Owe B, Dhami P, Smith K, Bar RJ,** & DeSouza JFX (2016). Investigating behavioural and EEG effects of dance on people with Parkinson's Disease (PwPD). *World Parkinson Congress*, Portland. *Journal of Parkinson's Disease*, Vol. 6, Supplement 1.
25. ***Vingilis-Jaremko L**, **Guida V**, **Beben K**, **Gabriel G**, & DeSouza JFX (2016) Face and body recognition in dancers and non-dancers. *Vision Sciences Society, 15*.
26. ***Barnstaple R**, **Rabinovich D**, & DeSouza JFX (2015) Dancing with the Brain - New Evidence for Neurorehabilitation associated with Dance. *American Dance Therapy Conference, San Diego.*
27. **Olshansky MP**, & DeSouza JFX (2015) The multisensory integration of naturalistic musical stimuli. *Neuroscience Meeting Planner. Chicago, Il: Society for Neuroscience Abstracts*. Online.
28. **Savija N**, **Di Nota PM**, **Levkov GR**, **Escobar GA**, **Smith K**, DeSouza JFX. (2015). Does sound localization improve with obstructed somatosensory feedback? *Neuroscience Meeting Planner. Chicago, IL: Society for Neurosciences Abstracts.*Conference.
29. **Vingilis-Jaremko L**, **Guida V**, **McGuire S**, DeSouza JFX (2015) Face and body recognition in dancers and non-dancers Chicago, IL: *Society for Neuroscience Abstracts. Online.*
30. **Levkov GR**, **Di Noto PM**, Montefusco-Siegmund R, **Bar RJ**, & DeSouza JFX (2014) Global alpha slowing in individuals with Parkinson's disease and dance-induced increases in frontal alpha synchronization. *Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience Abstracts*. Online.
31. **Di Noto PM**, **Chartrand JM**, **Levkov GR**, **Andrew R-A**, **Wiland MJ**, & DeSouza JFX (2014) Kinesthetic motor imagery of a newly learned dance is easier with eyes closed: modulation of alpha power and subjective imagery ratings by eye state and expertise. *Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience Abstracts*. Online.
32. **Dhami P**, Williams LJ, Moreno S, **Bar RJ**, & DeSouza JFX (2014) Network recruitment during motor visualization of a dance in controls and expert dancers. *Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience Abstracts*. Online.
33. **Levkov GR**, **Di Noto PM**, Montefusco-Siegmund R, **Bar RJ**, & DeSouza JFX (2014) Increases in alpha and beta synchronization found in people with Parkinson's disease following danc class. *Canadian Association for Neuroscience.* http://can-acn.org/documents/BrainCircuitsScheduleAbstractsFinal.pdf

34. DeSouza JFX, & **McDonald KC** (2014) Dance Intervention for People with Parkinson's Disease: Investigating Short-Term Impact of a 12- week Dance with Parkinson's class on Motor Functions and Quality of Life. *McMaster NeuroMusic Conference, 10*.
35. **McDonald KC**, **Bar RJ**, & DeSouza JFX (2014) A Dance Intervention for People with Parkinson's Disease: Investigating Short-Term and Long-Term Impacts of Dance on Physical Functioning and Quality of Life. *Collaborative Program In Neuroscience (CPIN) Research, Toronto, ON.*
36. ***Chan JL**, **Kucyi A**, & DeSouza JFX (2014) Attentional load affects task-related brain activation but not task decoding. *Human Brain Mapping, 20*.
37. *DeSouza JFX, **Di Noto PM**, **Levkov GR**, & Bar RJ (2014) Extrastriate Body Area (EBA) Activation is Greatest During Viewing of a Dance Sequence Compared to Visualization and Movement: Evidence for Learning and Expertise Effects. *Vision Sciences Society, 13*.
38. ***Di Noto PM**, **Chartrand JM**, **Levkov GR**, & DeSouza JFX (2014) Modulation of alpha power by eye state during kinesthetic motor imagery (KMI) of a newly learned dance sequence in experts. *Vision Sciences Society, 13*.
39. DeSouza JFX, **Bar RJ** & **Tehrani H** (2013) Brain networks involved in dance: a model mechanism for examining plasticity during dance therapy. *World Parkinson Congress*. *Journal of Parkinson's Disease*, Vol. 3, Supplement 1, 2013
40. **Olshansky MP**, **Bar RJ,** Fogarty M & DeSouza JFX (2013) Supplementary motor area (SMA) and auditory cortex activation in an expert break-dancer during visualized dance to music. *Society for Music Perception and Cognition.*
41. **Di Noto PM**, **Uta S** & DeSouza JFX (2013) Eye exercises enhance letter recognition and response accuracy in a modified rapid serial visual presentation (RSVP) attention task. *Canadian Association for Neuroscience*.
42. **Bar RJ** & DeSouza JFX (2012) Do neural circuits involved in learning a dance over 8 months continue to show increased activation? *Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience Abstracts*. Online.
43. **Pynn LK**, **Bar RJ**, Till C & DeSouza JFX (2012) Functional connectivity analysis in Expert Ballet Dancers: Is resting state associated with pre-SMA activity? *Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience Abstracts*. Online.
44. **Wong Kee You AM**, DeSouza JFX, Arsalidou M & **Norris E** (2012) Saccades and working memory. *Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience Abstracts*. Online.
45. **Tehrani H**, **Bar RJ**, **Leung S** & DeSouza JFX (2012) Diffusion tensor imaging: White matter neuroplasticity as music is translated to dance. *Come Dance with Me: Movement Control in Brain and Body. McMaster Institute for Music and the Mind NeuroMusic Conference.*
46. **Levkov GR**, **Bar RJ** & DeSouza JFX (2012) Hypothesized changes in long term learning of a music cue once repetition of familiar choreography ceases. *Come Dance with Me: Movement Control in Brain and Body. McMaster Institute for Music and the Mind NeuroMusic Conference.*
47. **Olshansky MP**, **Tehrani H**, **Bar RJ** & DeSouza JFX (2012) The Lateralization of temporal lobe activity in expert dancers while watching previously mastered choreography. *Come Dance with Me: Movement Control in Brain and Body. McMaster Institute for Music and the Mind NeuroMusic Conference.*
48. **Savija N**, **Tehrani H**, **Bar RJ** & DeSouza JFX (2012) Tracking plasticity: examining parietal and frontal connections with basal ganglia in long-term rehearsal in classical ballet dancers passively watching their dance. *Come Dance with Me: Movement Control in Brain and Body. McMaster Institute for Music and the Mind NeuroMusic Conference.*
49. **Petina K**, **Tehrani H**, **Bar RJ** & DeSouza JFX (2012) Tracking plasticity: Examining auditory and SMA connections with basal ganglia in long-term rehearsal in classical ballet dancers visualizing dance to music only. *Come Dance with Me: Movement Control in Brain and Body. McMaster Institute for Music and the Mind NeuroMusic Conference.*
50. **Bar RJ** & DeSouza JFX (2012) The effects of rehearsal on auditory cortex: An fMRI study of the putative neural mechanisms of dance therapy? *Seeing and Perceiving*, *25*, 45.

51. *DeSouza JFX & **Leger C** (2012) Does practice make perfect: an examination of performance during the Emotional Stroop paradigm. *Vision Sciences Society, 12*.
52. **West AL**, **Di Noto PM** & DeSouza JFX (2012) The "daredevil effect": Will prolonged visual deprivation improve auditory localization? *SONA conference*.
53. **Di Noto PM**, **West AL** & DeSouza JFX (2012) Investigating the influence of visuotactile illusory paresthesias on performance of an alternating winking task. *SONA conference*.
54. **Bar RJ** & DeSouza JFX (2012) The effects of motor rehearsal: A preliminary fMRI study of the putative neural mechanisms of dance therapy for Parkinson's disease. *SONA conference*.
55. **Greenberg A**, **Wang S-H**, **Chan JL**, Ferrari P, Cheyne D & DeSouza JFX (2011) Evoked response may differentiate the preparatory signals associated with pro- and anti-saccades: an MEG study. CVR conference on Plastic Vision.
56. **Di Noto P**, **West AL** & DeSouza JFX (2011) Investigating the influence of visuotactile illusory paresthesias on tactile acuity (two-point discrimination) and psychomotor performance (alternating winking task). *Society for Neuroscience Abstracts, 42*.
57. **Jobst CJT** & DeSouza JFX (2011) Variations of the Kanizsa illusion induce compression and extension effects during perception & action of eye and hand. *Society for Neuroscience Abstracts, 42*.
58. **Ovaysikia S**, **Pynn LK**, Desimone K & DeSouza JFX (2011) Integration of reward and inhibition under uncertainty and incentive driven outcomes. *Society for Neuroscience Abstracts, 42*.
59. Alikhanian H, Blohm G, Gaetz WC, Goltz HC, DeSouza JFX, Cheyne DO & JD Crawford (2011) Localization of Active Brain Areas Using MEG during a Reaching Task. *Society for Neuroscience Abstracts, 42*.
60. ***Wang S-H**, Ferrari P, Lalancette M, Simine E, Bells S, Cheyne D, Fallah M, Tsotsos JK, & DeSouza JFX (2011) The neuronal activation underlying the decision of a speed change along the frontoparietal network. *Human Brain Mapping, 17*.
61. ***Jazi M**, **Ovaysikia S**, **Tse S** & DeSouza JFX (2011) The Involvement of the Inferior Frontal Junction in Inhibition: the Emotional Stroop Task Activates the Network of the Right IFJ. *Neuroscience of Emotion and Emotion-related disorders: Inaugral conference of the Rotman Research Institute and the Kunin-Lunenfeld Applied Research Unit*, *1*.
62. **Di Noto P** & DeSouza JFX (2011) Investigating a visuotactile illusion induced by monocular occlusion with a black contact lens: Quantitative Analysis. *Canadian Physiological Society*.
63. *DeSouza JFX, **Kucyi A**, **Pynn LK**, **Jobst C**, **Di Noto P**, **Keith G** & Wolfe U (2011) A multimodal visuotactile illusion induced by monocular occlusion with a black contact lens does not depend on touch signals on the face: evidence from behavioural and modeling. *Vision Sciences Society, 11*.
64. †**Jobst C**, **Kucyi A**, **Pynn LK** & DeSouza JFX (2010) A multimodal visuotacile illusion induced by monocular occlusion with a black contact lens. *Society for Neuroscience Abstracts, 41*. †selected as Newsworthy from amongst 15,116 poster presentations
65. **Tharani A**, Wang H, DeSouza JFX & Crawford JD (2010) Eye-head coordination during reactive, volitional, and scanning gaze shifts. *Society for Neuroscience Abstracts, 41*.
66. **Pynn LK** & DeSouza JFX (2010) The effect of attention on unisensory and multisensory processing using music stimuli. *Society for Neuroscience Abstracts, 41*.
67. **DiNoto PM** & DeSouza JFX (2010) A multimodal visuotacile illusion by monocular blindness via a black contact lens. *Society for Neuroscience Abstracts, 41*.
68. **Kucyi A**, **Chan JL**, **Arsenyan D**, **Soeizi M** & DeSouza JFX (2010) The effect of preparatory period on pro- and anti-saccade performance using a gap paradigm. *Society for Neuroscience Abstracts, 41*.
69. ***Chan JL** & DeSouza JFX (2010) Neural correlates of impulse control in the frontal cortex using a dual attentional task and the antisaccade task. *Baycrest- Berkeley presents the 20th Annual Rotman Research Institute Conference: The Frontal Lobes*.
70. *DeSouza JFX, **Wang S-H**, Simine E, Ferrari P, Lalancette M, Bells S, Cheyne D, Fallah M & Tsotsos JK (2010) Frontal cortex regions activated during detection of a subtle speed change: a MEG study. *Baycrest- Berkeley presents the 20th Annual Rotman Research Institute Conference: The Frontal Lobes*.http://www.frontiersin.org/Community/AbstractDetails.aspx?ABS_DOI=10.3389/conf.fnins.2010.14.00099

71. **Ovaysikia S**, **Tahir K**, **Chan JL**, **Jobst CJT**, **Pynn LK**, & DeSouza JFX (2009) A Novel Stroop effect examining emotional words on facial expressions: An fMRI study. *Society for Neuroscience Abstracts, 40.*
72. DeSouza JFX, Henriques DYP, **Tahir K** & **Ovaysikia S** (2009) Eye position modulation of internally or externally generated somatosensory stimuli in humans using fMRI. *Neural Control of Movement, 19*.
73. *Blohm G, Gaetz WC, Goltz HC, DeSouza JFX, Bells S, Cheyne DO & Crawford JD (2009) Cortical oscillations in human posterior parietal cortex during visually-guided reach planning. *Vision Science Society, 9.*
74. DeSouza JFX, **Keith GP**, Yan X, Wang H & Crawford JD (2008) Determining the intrinsic reference frame of visuomotor receptive fields in head-free gaze shifts II: Reference frame and target versus movement coding in superior colliculus units. *Society for Neuroscience Abstracts, 38*.
75. **Keith GP**, DeSouza JFX, Yan X, Wang H & Crawford JD (2008) Determining the intrinsic reference frame of visuomotor receptive fields in head-free gaze shifts I: Method development and simulations. *Society for Neuroscience Abstracts, 38*.
76. **Radik R**, Yan X, Wang H, DeSouza JFX & Crawford JD (2008) Task dependent spatial updating of saccade targets during smooth pursuit. *Society for Neuroscience Abstracts, 38*.
77. **Meza C**, **Wang S-H**, **Ovaysikia S**, **Tahir K**, Henriques, DYP & DeSouza JFX (2008) Are human saccade regions modulated by eye position using fMRI? *Society for Neuroscience Abstracts, 38*.
78. **Tahir K**, **Ovaysikia S**, Steinbach MJ, Henriques DYP & DeSouza JFX (2008) Is there an eye position signal in human somatosensory cortex using fMRI? *Society for Neuroscience Abstracts, 38*.
79. **Ovaysikia S**, Danckert JA & DeSouza JFX (2008) An analogous medial frontal cortical network for the Stroop and Anti-saccade tasks but a different one for the subcortical region in the putamen. *Canadian Association for Neuroscience, 2.*
80. **Ovaysikia S**, Danckert JA & DeSouza JFX (2008) A common medial frontal cortical network for the Stroop and anti-saccade tasks but not for the subcortical area in the putamen. *Cognitive Neuroscience Society, 15.*
81. ***Keith GP**, DeSouza JFX, Yan X & Crawford JD (2008) A new method for determining neuron receptive field reference-frames. *Vision Science Society, 8*.
82. **Ovaysikia S**, **Hoover AEN**, **Chan C-YJ**, **Al-Mousawy SA**, **Tahir K**, Danckert J & DeSouza JFX (2007) Is the same anterior cingulate region involved in processing the suppression signals for the antisaccade and stroop tasks? *Society for Neuroscience Abstracts, 37*.
83. Blohm G, Gaetz WC, Goltz HC, DeSouza JFX, Bells S, Cheyne DO & Crawford JD (2007) Functional dynamics of brain activity underlying the visuomotor transformation for pointing: an MEG study. *Society for Neuroscience Abstracts, 37*.
84. DeSouza JFX, Blohm G, **Hoover AEN**, **Chan C-YJ**, Yan X, Wang H & Crawford JD (2007) Superior colliculus (SC) neural activity codes visually guided head-unrestrained gaze movements in retinal coordinates. Effects of position-dependent motor tuning. *Neural Control of Movement, 17*.
85. DeSouza JFX, Blohm G, Yan X, Wang H & Crawford JD (2007) Superior colliculus (SC) neural activity codes visually guided head-unrestrained gaze movements in retinal coordinates. *Vision Science Society, 7.*
86. Crawford JD, Yan X, Wang H, **Radik R**, & DeSouza JFX (2006) Internal representation of motion parallax in the superior colliculus (SC) during passive head translations and saccades to targets in 3-D space. *Society for Neuroscience Abstracts, 36*.
87. DeSouza JFX, Yan X, Blohm G, Wang H & Crawford JD (2006) Gaze position effects and position-dependent motor tuning in primate superior colliculus (SC) neurons during head-unrestrained visually guided movements. *Society for Neuroscience Abstracts, 36*.
88. Woodward TS, Meier B, Cairol TA, DeSouza JFX, Wang H & Ngan ETC (2006) Temporo-prefrontal coordination increases when semantic associations are strongly encoded. *Society for Neuroscience Abstracts, 36.*
89. *DeSouza JFX, Yan X, Keith GP, Blohm G, Wang H & Crawford JD (2006) Gaze position effects and position-dependent motor tuning from primate superior colliculus (SC) neurons during head-

unrestrained visually guided movements. *Vision Science Society, 6*. http://journalofvision.org/6/6/917/

90. DeSouza JFX, Yan X, Wang H & Crawford JD (2005) Position-dependent Motor Tuning of Superior Colliculus (SC) Neurons in the Head-Unrestrained Monkey. *Society for Neuroscience Abstracts, 35.*
91. *Crawford JD, Fernandez-Ruiz J, DeSouza JFX, Goltz H & Vilis T (2005) Human parietal reach region encodes visual stimulus coordinates, not movement direction, during reversing prism adaptation. *Vision Science Society, 5*.
92. DeSouza JFX & Everling S (2004) Instruction and rule-related neural activity within the primate prefrontal cortex during anti-saccade generation. *Society for Neuroscience Abstracts, 34*.
93. Crawford JD, Fernandez-Ruiz J, DeSouza JFX, Goltz H & Vilis T (2004) Human parietal reach region encodes visual stimulus coordinates, not movement direction, during reversing prism adaptation. *Society for Neuroscience Abstracts, 34*.
94. **Brown MRG**, DeSouza JFX, Ford K, Goltz HC, Ford K, Goodale MA & Everling S (2004) Cortical connectivity for memory- versus visually guided saccades. *Society for Neuroscience Abstracts, 34*.
95. Everling S, Brimson M, Menon RS & DeSouza JFX (2003) Face processing in an awake monkey investigated with fMRI. *Society for Neuroscience Abstracts, 24*.
96. DeSouza JFX, Iversen SD & Everling S (2003) Preparatory set activity associated with pro-saccades and anti-saccades within the primate prefrontal cortex. *Society for Neuroscience Abstracts, 24*.
97. DeSouza JFX, Iversen SD & Everling S (2003) Preparatory set activity associated with pro-saccades and anti-saccades within the primate prefrontal cortex. *European Conference on Eye Movements, 12*.
98. **Brown MRG**, DeSouza JFX, Ford K, Goltz HC, Menon RS, Goodale MA & Everling, S (2003) Neural correlates for memory- and visually-guided saccades investigated with event-related fMRI. *European Conference on Eye Movements*, *12*.
99. *DeSouza JFX, Iversen SD & Everling S (2003) Neural correlates for preparatory set associated with pro-saccades and anti-saccades in primate prefrontal cortex. *Vision Science Society, 3*. http://journalofvision.org/3/9/686/
100. DeSouza JFX, Brimson M & Everling S (2002) Filtering of stimulus-related responses in a delayed match-to-object-and-location task in the macaque prefrontal cortex. *Society for Neuroscience Abstracts, 28*.
101. Everling S, Menon RS & DeSouza JFX (2002) Role of human frontal cortex during preparatory set periods prior to execution of pro-saccades and anti-saccades. *Society for Neuroscience Abstracts, 28.*
102. Goltz HC, DeSouza JFX, Menon RS & Vilis T (2002) Activation of human MT+ by the percept of afterimage motion revealed by fMRI. *Society for Neuroscience Abstracts, 28*.
103. **Brown MRG**, DeSouza JFX, Ford K, Goltz HC, Goodale MA & Everling S (2002) Comparison of memory- and visually-guided saccades using event-related fMRI. *Society for Neuroscience Abstracts, 28.*
104. *DeSouza JFX & Everling S (2002) Neural correlates for preparatory set associated with prosaccades and anti-saccades in humans investigated with event-related fMRI. *Vision Science Society, 2*. http://journalofvision.org/2/7/578/
105. Goltz HC, Dukelow SP, DeSouza JFX, Culham JC, van den Berg AV, Goossens HHL, Menon RS & Vilis T (2001) A putative homologue of monkey area VIP in humans. *Society for Neuroscience Abstracts, 27.*
106. *Culham JC, DeSouza JFX, Woodward Kourtzi ZS, Gati JS, Menon RS & Goodale MA (2001) Visually-Guided Grasping Produces fMRI Activation in Dorsal but not Ventral Stream Brain Areas. *Vision Science Society, 1*. http://journalofvision.org/1/3/194/
107. Connolly JD, Goodale MA, DeSouza JFX, Menon RS & Vilis T (1999) The frontoparietal network for antipointing includes the antisaccade network and antipointing-only foci. *Society for Neuroscience Abstracts, 25.*
108. Connolly JD, Goodale MA, DeSouza JFX, Menon RS & Vilis T (1999) Frontoparietal circuits for antisaccades and antipointing: auxillary foci for anti- as compared to promovement. *Consciousness and Self: Neural, Cognitive and Philosophical issues*, *3*.

109. Connolly JD, DeSouza JFX, Culham JC, Gati JS, Menon RS, Goodale MA & Vilis T (1998) Distinct parietal and frontal eye field activation during antisaccades using BOLD fMRI. *Society for Neuroscience Abstracts, 24*.
110. DeSouza JFX, Dukelow SP, Gati JS, Menon RS, Andersen RA & Vilis T (1998) The human parietal pointing region is modulated by eye position during memory-guided reaching. *Society for Neuroscience Abstracts, 24*.
111. DeSouza JFX, Dukelow SP, Gati JS, Menon RS & Vilis T (1997) Larger saccadic eye movements cause increased activation in cortical frontal and parietal eye fields using bold fMRI. *Society for Neuroscience Abstracts, 23.*
112. Dukelow SP, DeSouza JFX, Bhanji A, Gati JS, Menon RS & Vilis T (1997) Speed sensitivity in human area MT/V5 as determined by fMRI. *Society for Neuroscience Abstracts, 23.*
113. Somani R, Hutnik C, DeSouza JFX, Tweed D, Nicolle D & Vilis T (1997) Using a Synoptophore to test Listing's law during vergence in patients with strabismus. *Society for Neuroscience Abstracts, 23*.
114. DeSouza JFX, Dukelow SP, Gati JS, Menon RS & Vilis T (1997) Observations of increased BOLD changes in fMRI caused by larger sized saccadic eye movements. *Southern Ontario Neuroscience Association*, *17*.
115. Somani R, DeSouza JFX, Tweed D & Vilis T (1996) Visual test of Listing's law during vergence. *Society for Neuroscience Abstracts, 22*.
116. DeSouza JFX, Mikael S, Nicolle DA & Vilis T (1995) Why is Listing's plane thick? *Society for Neuroscience Abstracts, 21.*
117. Aglioti SM, Goodale MA & DeSouza J (1994) Size illusion affect perception but not prehension. *Society for Neuroscience Abstracts, 20*.
118. Saucier D, Cain DP, DeSouza JF & Wilson E (1993) The novel, competitive, NMDA antagonist-NPC 17742 and water maze performance, LTP, and kindling. *Society for Neuroscience Abstracts, 19*.
119. Cain DP, Saucier D, Hargreaves EL, Boon F, Hall J, DeSouza J & Wilson E (1993) APV and CNQX disrupt both water maze acquisition and sensorimotor performance abilities related to the water maze task. *Society for Neuroscience Abstracts, 19*.
120. Saucier DM, DeSouza JFX, Wilson E & Cain DP (1993) Behavioural effects of the novel, competitive, N-methyl-D-aspartate (NMDA) antagonists NPC12626 and NPC17742. *Canadian Society for Brain, Behaviour, and Cognitive Science Abstracts, 3.*

2. UNPUBLISHED PROFESSIONAL REPORTS

1. DeSouza JFX, Gati JS, Menon RS, Andersen RA & Vilis T. A human parietal pointing region is modulated by eye and arm position during delayed pointing. *Three-Dimensional Sensory and Motor Space: Cortical Neuronal Mechanisms and Psychophysics of Orientation and Motion in Three-Dimensional Space*. Castelvecchio Pascoli, Italy. April 1999.
2. DeSouza JFX & Vilis T. The cortical areas that are activiated during saccadic eye movments using functional magnetic resonance imaging. Micro-Symposium on Visual and Non Visual Factors in Orienting Behavior: *Human Frontier Science Program*. Windemere Manor, London, Ontario. May 1997.

3. WORK SUBMITTED:

1. **Olshansky M** & DeSouza JFX. Detecting unisensory targets in multisensory stimuli: The effects of endogenous attention on multisensory processing. *Submitted to Vision Research* (VR-15-234).
2. **Leger CS** & DeSouza JFX. Another piece to the neural correlate puzzle of executive function decline in cognitive impairment. Commentary on Neural correlates of saccadic inhibition in healthy elderly and patients with amnestic mild cognitive impairment by Alichniewicz, K. K., Brunner, F., Klünemann, F. H. H., & Greenlee, M. W. (Submitted). Front. in Psych.

4. WORK IN PROGRESS:

Wang SH, Ferrari P, Simine E, Lalancette M, Bells S, Cheyne DO, Fallah M, Tsotsos JK & DeSouza JFX. Task related neuromagnetic activity underlying the visual perception of velocity change: a MEG Study. *Submitted to Human Brain Mapping (HBM-11-0820) with resubmission pending*.

DeSouza JFX & Everling S. Preparatory set activity associated with pro-saccades and anti-saccades within the primate prefrontal cortex. *Submitted Journal of Neurophysiology Feb 18th (JN-00146-2011) with resubmission pending*.

DeSouza JFX, **Tahir KA**, Henriques DYP & **Ovaysikia S**. Eye position signals in human somatosensory cortex using fMRI. *First reviewed by Journal of Neuroscience (JN-RM-4024-09) and second review (JN-RM-6180-09) now submitted using NPRC to European Journal of Neuroscience (EJN-2011-06-18391) with resubmission pending*.

5. PROFESSIONAL SERVICE

*Ad-Hoc reviewer for **granting agencies**/journals:*

***NSERC Discovery Grant Program, Agence recherche france, BBSRC (UK), L'Agence Nationale de la Recherche (ANR), Wellcome Trust (UK), Sir Dale Fellowship (UK)**, Acta Psychologica, BMC Neuroscience, BRAIN, Brain Structure and Function, Brain Topography, Behavioural Brain Research, Brain and Cognition, Brain Imaging and Behavior, Experimental Brain Research, European Journal of Neuroscience, Frontiers in Perception Science, Frontiers in Human Neuroscience, Frontiers in Integrative Neuroscience, Human Brain Mapping, Journal of Alzheimer's Disease, Journal of Neuroscience, Journal of Neurophysiology, Neuropsychologia, Journal of Vision, PLOS ONE, Scientific Reports, Vision and Vision Research.*

PROFESSIONAL AFFILIATIONS:

Society for Neuroscience, Movement Disorders Society, American Physiological Society, Society for the Neural Control of Movement, Canadian Physiological Society, Cognitive Neuroscience Society, Vision Sciences Society, Canadian Brain Behaviour and Cognitive Science, American Dance Therapy Association, Faculty for Undergraduate Neuroscience (FUN), Human Brain Mapping, Canadian Association for Neuroscience and Canadian Society for Chronobiology

6. PUBLIC APPEARANCES:

LECTURES:

1. Parkinson's disease slows down with multisensory training. **First Annual Joint Parkinson's Disease Multidisciplinary Symposium for Concordia and McGill**, March 18th, 2021. Host: E. Ajit-Roger
2. LEARNING…….promotes health across the lifespan. **Replica institute @ Weizenbaum Institut, Berlin**, September 27th, 2019. Host: J. Chicau
3. Paradigm shift = Eye movements vs Attention || Music vs Dance. **Brahms, Universitie de Montreal**, June 26th, 2019. Host: Dr. V. Penhune
4. Visuomotor control from eye movements to applied dance. **OCTO**, March 2th, 2019. Host: Dr. A. Blangero
5. Let's move to music. **Parkinson's Kingston**, October 2th, 2018. Host: Palmier Stevenson-Young
6. Music Therapy and Dance. **Parkinson's Canada - 2018 knowledge network webinar series**, August 14th, 2018. Host: Grace Ferrari
7. Neurorehabilitation using music and dance. **Parkinson's Canada Central Ontario: Education session** in Barrie, ON, May 10th, 2018. Host: Ann McNamara

8. Motor learning in the real world in experts and people with Parkinson's disease. **IRTG Brain in Action group**, Dec 19th, 2017. Host: IRTG
9. Quantifying improvements in dance via neurorehabilitation. **Parkinson's Canada**, Oct. 27th, 2017. Host: Debbie Davis
10. Music, Movement and the Brain. **Cristie Garden's Residence Program Committee**, September 20th, 2017. Host: Susanna Jacob
11. Neurorehabiliation through motor learning with music. **Dalhousie University – dept of psychology**, March 10th, 2017. Host: T. Perrot.
12. Can Dance through neurorehabilitation transfer to biomarker studies? **Lifelong Learning Niagara**, May 11th, 2016. Host: M. Beccaria.
13. Is dance therapy for people with Parkinson's Mood enhancing? **Parkinson's Central**, April 27th, 2016.
14. How can Dance Movement Therapy help an ageing population's health and happiness? Dec 17th, 2015. **Annual Research Conference**. Host: Les Grand Ballet Canadiens.
15. How can learning dance choreography inform us about neurorehabilitation? 11th Annual NeuroMusic McMaster Centre for Music and Mind Conference **Music and Health,** November 14th, 2015. Host: Drs. L. Trainor & S. Brown.
16. Why Dance Helps: A Talk and Demonstration. 1st annual **Art Heals Health Heals Art Symposium – Daniels Spectrum Centre**, Oct 28th, 2015. Host: UHN-Toronto Western Hospital.
17. Dancing with the Brain: New evidence for Neurorehabilitation associated with dance. **50th anniversary of American Dance Therapy Association**. Co-presented with R. Barnstaple. October 24, 2015.
18. Visuomotor control from eye movements to dance. **Centre for Vision Research Summer School**, June 4th, 2015.
19. The new neurorehabilitation = dance? **Concordia University**, May 15th, 2015. Host: J. Sacks.
20. Dance helps people with Parkinson's. **Parkinson Society Eastern Ontario's annual Symposium in Ottawa**, April 16th, 2015. Host: Adrien Harewood of CBC.
21. Dance helps people with Parkinson's. **Canada's National Ballet School**, March 3rd, 2015. Host: David Leventhal Dance for PD at Mark Morris Dance Studio, Brooklyn, NY. http://capture.nbs-enb.ca/dwp.aspx
22. Examining visuomotor transformations using rsEEG. **The City College of New York**, October 28th, 2014. Host: Dr. C. Moisello.
23. Why Dance helps! **Toronto Conference for people living with Parkinson's**, October 24th, 2014. Host: Sandie Jones
24. Why dance is important for people with Parkinson's. **Parkinson's Bolton Group**, May 28th, 2014. Host: Ted Dance
25. Research evidence on Dance. **Exploring the Potential and Opportunities of Dance for Older Adults, Caregivers & Community: A Two Day Experiential Think Tank**, May 8-9th, 2014. Host: Melissa Tafler, Baycrest Hospital
26. The evolution of dance in persons with Parkinson's. **Parkinson's Kingston**, February 4th, 2014. Host: Palmier Stevenson-Young
27. The evolution of dance in the brain of persons with Parkinson's. **Parkinson's Society Canada**, October 25th, 2013. Host: Debbie Davis
28. Tracking the changes in motor learning as experts learn a novel ballet over 34 weeks using fMRI: implications for dance therapy in Parkinson's patients. **Trinity College Institute of Neuroscience, University of Dublin, Ireland**, Feb 11th, 2013. Host: Dr. Eugenie Roudaia
29. Tracking a complex dance over time: conversion of music to ballet over 34 weeks using fMRI. **TIMELY Training school "Timing and Time Perception: Procedures, Measures, & Applications**, Corfu, Greece, Feb 8th, 2013.
30. Tracking the changes in motor learning as experts learn a novel ballet over 34 weeks using fMRI: implications for dance therapy in Parkinson's patients. **INSERM – Institut national de la sante et de la recherche medicale, Lyon, France**, Feb 1st, 2013. Host: Dr. Aarlenne Khan

31. How the brain learns to encode music to movement: implications for dance therapy and Parkinson's disease. **Toronto Western Research Institute Neuroimaging Rounds**, September 11th, 2012.
32. Tracking plasticity: conversion of music to dance over 34 weeks using fMRI. **Rotman Rounds – Baycrest Hospital**, Sept 10th, 2012. Host: Dr. Sylvain Moreno
33. Conversion of music to dance in auditory and supplementary motor cortex (SMA) over 34 weeks in expert ballerinas using fMRI. **McMaster University**, Sept 7th, 2012. Host: Dr. Laurel Trainor
34. Tracking plasticity: conversion of music to dance over 34 weeks using fMRI. **The City College of New York**, August 1st, 2012. Host: Dr. Annabelle Blangero
35. An examination of the conversion of music to dance over 34 weeks using fMRI. **Newcastle University Institute of Neuroscience**, June 25, 2012. Host: Dr. Jason Connolly
36. Effects of rehearsal and performance for 34 weeks in expert ballerinas: neural mechanisms of the conversion of music to movement using fMRI. **1st World Neuroscience Online Conference**, June 14, 2012.
37. How is visualization of a complex motor task coded in the brain. **Centre for Vision Research Summer School**, June 4, 2012.
38. Medial frontal cortex activation due to visualization. **Drake Hotel**, Toronto, April 20, 2012. Host: CVR retreat
39. The effects of attention on unisensory and multisensory processing of real world music in the parieto-frontal network. **University of Nevada Las Vegas (UNLV)**, USA, March 9, 2012. Host: Joel S. Snyder.
40. How much attention is needed during antisaccade preparation? **Peking University**, Beijing, China, July 11, 2011. Host: Fang Fang.
41. Attention to the word wins over attention to the face: the Emotional stroop paradigm. **International Forum on Neuroscience**, Nanjing, Jiangsu, China, July 10, 2011.
42. Response suppression signals in primates and human frontal cortex. **Centre for Vision Research Summer School**, May 17, 2011.
43. Can MEG bridge the gap between attentional signals in humans and primates before the antisaccade? **University of Toronto – Sick Childrens Hospital**, Dec 9, 2010, Host: MEG Rounds.
44. Multisensory suppression signals within somatosensation generated by an absence of vision. **University of St. Thomas**, Minnesota, USA, Nov 11, 2010. Host: Dr. Uta Wolfe.
45. A novel visual-somatosensory illusion: using behavioural, fMRI and computational neuroscience approaches in humans. **University of Waterloo**, Nov 4, 2010. Host: Dr. James Danckert.
46. Examining multisensory attentional response suppression signals and a novel visual-somatosensory illusion: using behavioural, electrophysiology, fMRI, MEG, computational neuroscience approaches in human and nonhuman primates. **Franco-Canadian Meeting in Neuroscience**, Oct 7, 2010. Host: Consulat Général de France à Toronto – Office for Science and Technology.
47. How much of the preparatory period while planning an anti-saccade involves attention? **Smith-Kettlewell Eye Research Institute**, San Francisco, USA, June 22, 2009. Host: Dr. Bei Xiao.
48. Top-down Influences of Fronto-Parietal Cortex on Vision: Neural correlates of response suppression in prefrontal cortex. **Centre for Vision Research Conference 2007: Cortical Mechanisms of Vision**, Toronto, Canada, June 22, 2007. Host: Dr. M Fallah.
49. To look or look away? Neural correlates of response suppression signals in humans and primates. **University of Groningen**, The Netherlands, April 2, 2007. Host: Dr. E-M Klop.
50. From frontal cortex suppression signals to head-free gaze shifts during gaze orienting movements: examinations of top-down influences on gaze control. Centre for Systems Engineering and Applied Mechanics, **Universite catholique de Louvain**, Brussels, Belgium, March 27, 2007. Host: Dr. P Lefevre.
51. Frontal cortex suppression signals in humans and primates. Biology Department, York University, Toronto, ON, January 17, 2007. Host: Dr. J Shore.
52. Neural correlates of response suppression signals in humans and primates. **Univerisity of Lethbridge**, Alberta, Canada, June 8, 2007. Host: Dr. D Saucier.

53. To look or look away? Neural correlates of response suppression signals in humans and primates. Psychology Department, **University of Manitoba**, Winnipeg, MB, August 25, 2006. Host: Dr. J Marotta.
54. From Response Suppression Signals to 3D Gaze Control Models of Saccadic Behavior in Humans and Primates. School of Optometry, Department of Vision Sciences, **University of Alabama at Birmingham**, Alabama, USA, Faculty position interview. Declined. Host: Dr. P Gamlin.
55. Does human and primate prefrontal cortex function include response suppression signals? Department of Psychology, **York University**, Toronto, ON, February 2, 2006. Faculty position interview. Host: Dr. D Reid.
56. From Response Suppression Signals to 3D Gaze Control Models of Saccadic Behavior in Humans and Primates. Psychology Department, **Indiana University**, Bloomington, IN, USA, January 17, 2006. Faculty position interview. Host: Dr. L Smith.
57. To look or look away: Prefrontal cortex function during the anti-saccade task in humans and primates. Psychology Department, **Indiana University**, Bloomington, IN, USA, September 9, 2005. Host: Dr. T James.
58. Visual signals employed by the eye movement network. Kinesiology Department, **York University**, Toronto, ON, March 29, 2005. Host: Dr. R Kelton.
59. To look or not to look: Prefrontal cortex function during the anti-saccade task in humans and primates. Department of Psychology, **York University**, Toronto, ON, March 4, 2005. Host: Dr. J Elder.
60. Using the anti-saccade task to examine preparatory set in primates and humans. Center for Vision Research, **York University**, Toronto, ON, October 1, 2004. Host: Centre for Vision Research
61. To Look or not to Look: Instruction and rule-related neural activity within the primate prefrontal cortex. Department of Psychology, **York University**, Toronto, ON, March 19, 2004. Post-doctoral interview with Dr. J Crawford.
62. Eye position effects in humans using fMRI. **University of Western Ontario**, August 9, 2001. Post-doctoral interview with Dr. S Everling.
63. Spatial transformations in the human parietal cortex. Center for the Neural Basis of Cognition, **University of Pittsburgh**, March 14, 2001. Post-doctoral interview with Dr. C Colby.
64. Eye position signals modulate a human intraparietal region during delayed pointing using fMRI. **Queens University**, Kingston, ON, December 8, 2000. Post-doctoral interview with Dr. D Munoz.
65. Eye position signals in the human brain. **California Institute of Technology**, Pasadena, California, November 8, 2000. Post-doctoral interview with Dr. R Andersen.
66. DeSouza, J.F.X. An eye position signal in the parietal cortex using fMRI. **Sloan foundation Gain fields meeting**, Monteray Bay, California, May 1, 2000.

7. FUNDING

RESEARCH GRANTS: (Awarded)

2007-12	NSERC Discovery program (PI) $112,435	Eye position signals used for coordinate transformations in humans using fMRI
2007-12	Canadian Institute of Health Research (co-PI with Doug Crawford) $1,047,200 Ranked #2	Spatial transformations of 3-D gaze
2009-10	RAY Program at York University (PI) $28,000	Brain imaging analysis
2008-11	Faculty of Health Minor Research Grant (PI)	Titration of response suppression effects during the anti-saccade task: a

	$3,000	psychophysical behavioural study in humans
2009-14	NSERC CREATE program Western, Queen's & York Univ's (collaborator) $1,650,000 (1/2 PDF funding; graduate student funding)	Computational approaches to Sensorimotor Transformations for the Control of Action
2010-11	Faculty of Health Junior Faculty Grant (PI) $2,000	Investigating the multimodal relationships between vision and somatosensation in human parietal cortex using a touch stimulus
2010-11	York Minor Research Grant: One Time Only (PI) $3,000	Cortical activation when using saccades/anti-saccades to report the detection of a subtle speed change: a MEG study
2011-12	Pilot study grant application (Neuroimaging Laboratory) (PI) $9,750	The orbitofrontal cortex and the integration of reward and inhibition in decision-making
2011-12	Pilot study grant application (Neuroimaging Laboratory) (collaborator) $9,750 (PI Dr. Till)	Functional MRI (fMRI) activation of executive control networks in adolescents and young adults with multiple sclerosis (MS)
2011-14	Scottish Rite Charitable Foundation of Canada (collaborator) $104,996 (PI – Dr. C. Till)	Structural and functional neuroimaging correlates of cognitive impairment in children and adolescents with multiple sclerosis
2012-15	Canadian Foundation for Innovation (CFI) (PI) $354,410	Multi-technique approach for examining neural correlates of eye position, response suppression and attention
2012-13	NSERC Discovery program (PI) RGPIN/346135-2012 $25,000	Attentional signals during visuomotor tasks
2012-13	Faculty of Health Minor Research Grant (PI) $3,000	Does encoding a motor habit from a sound stimulus involve basal ganglia: the putative role of music in Parkinson's disease
2012-18	Irpinia Club of Toronto (PI) $21,000	Implications of Dance for Parkinson's research
2013-14	Faculty of Health Junior Faculty Funds (PI) $2,000	Circadian rhythms and prefrontal cortex functioning: a double-blind study examining melatonin and cognitive control

2013-14	Parkinson's Society of Canada (PI) $44,999	Neural Mechanisms behind Dance Therapy for Parkinson's Disease
2013-14	NSERC ENGAGE program (PI) EGP #451681-13 $25,000	Video Tracking of body angle behaviour correlated with multi-channel wireless muscle function imaging system (Myoguide MAP)
2014-16	Ontario Problem Gambling Research Centre (co-PI with Nigel Turner – Centre for Addition and Mental Health) $30,000	KTE Project: Creating a manual for the use of Mindfulness treatment for Problem Gamblers
2015-21	NSERC CREATE-IRTG / DFG (German Research Foundation) (PI – J.D. Crawford) Collaborator $1,550,000 over 6 years	The Brain in Action
2015-17	Canadian Institutes of Health Research. *Investigative Team*: Rachel Bar, Jennifer Lapum, Michelle Dionne, & Lorraine Kalia (Advisory committee member/ consultant) $10,000	Dance and Parkinson's Disease: A Research Dissemination Project.
2016-18	Brain Canada Health Canada and Les Grand Ballet Canadiens de Montreal's National Centre for Dance Therapy, McGill University Health Centre, Team members, N. Low, S. Berry, J. DeSouza (co-PI), D. Rabinovich, R. Barnstaple $23,000	A mixed-methods evaluation of a dance therapy intervention for students seeking on-campus mental health services
2017-24	Canada First Research Excellence Fund (CFREF) (PI – J.D. Crawford; Associate Member $33,300,000 over 6 years	Vision: Science to Applications (VISTA)
2017-22	NSERC Discovery Grant (PI) $25,000 x 5 years	Multisensory signals used for learning
2018-20	SSHRC-Connect Team Leader DeSouza (PI) UQAM (S. Fortin) $15,280	First International Symposium for Dance and Well-Being: Advancing Research, Polilcy and Practice

RESEARCH GRANTS: *(pending / upcoming / resubmissions)*

2019-09	Michael J Fox Foundation Investigative Team Leader J. DeSouza (PI) $50,000 x 3 years	Progression of Parkinson's disease symptoms halted using multisensory training over 3- years as assessed with MDS-UPDRS: understanding mechanisms with 24/7 behavioural

		measurements.
2019-09	Parkinson's France Canadian Team Leader DeSouza (PI) France Team Leader (Corine Karachi) 2,889,706€ for 5 years	A technological platform for Parkinson's disease patients and research
2019-05	NSERC ENGAGE Investigative Team Leader J. DeSouza (PI) $25,000 x 1/2 year	Developing methods to record 24/7 behavioural measurements in people with Parkinson's disease
2020-06	VISTA pilot grant Investigative Team Leader D. Henriques (PI) $25,000 x 2 year	Understanding visuomotor mechanisms in Parkinson's

AWARDS:

2019-20	YUFA leave fellowship fund (Sabbatical)	$14,283.29
2019-20	VISTA distinguished travel fellowship fund	$10,000.00
2012-13	Canada-China Scholars' Exchange Program (CCSEP) for Sabbatical travel & accommodations	China Scholarship Council and the Canadian Embassy in China
2008-17	Travel Award York University $1000	Faculty of Health, York University
2008-12	Short Term Foreign Faculty Hiring Program (SFHP) $5000	Higher Education Commission, University of Punjab, Government of Pakistan
2004-6	Postdoctoral Fellowship $40,000 for 2 years	CIHR Strategic Training Program in Vision Health
2004-6	NSERC Postdoctoral Fellowship $80,000 for 2 years	Natural Sciences and Engineering Research Council
2002	Neuroscience PhD Award $100	Neuroscience Program, UWO
1998-01	Doctoral Research Award $57,000 for 3 years	Medical Research Council of Canada
1996-00	Graduate Tuition Scholarship $23,000 for 4 years	University of Western Ontario
1996-8	NSERC Post Graduate Scholarship $34,000 for 2 years	Natural Sciences and Engineering Research Council
1993	NSERC USRA Grant	Natural Sciences and Engineering Research Council

C. TEACHING

Supervisorships

Degree	In progress	Completed	International
Undergraduate	*1 honours thesis; 4 Independent RPs*	32 *honours thesis*; 24 *Independent studies* *3 Dance Science certificates*	3 *completed Mount Holyoke College; Rochester, USA, India Institute of Tech, India*
Masters	2 psychology 3 interdisc	15 + 4 *co-supervision*	
Doctoral	2 psychology	2 psychology 1 dance	1 international co-supervised neuroscience @CUNY
Post-Doctoral	1	3	
Visiting scientists			1 – oviedo university spain 1 – china MD
Committees	1-*Masters*; 6-*PhD*	27-*Masters*; 18-*PhD*	

1. UNDERGRADUATE:

COURSES TAUGHT:

Biological Basis of Behaviour (PSYC 2240: Section A): S1 2020-21
Biological Basis of Behaviour (PSYC 2240: Section M): 2020-21***nominated and awarded teaching award from Student services**
Biological Basis of Behaviour (PSYC 2240: Section N): 2020-21
Biological Basis of Behaviour (PSYC 2240: Section B): 2020-21
Biological Basis of Behaviour (PSYC 2240: Section M): 2018-19
Biological Basis of Behaviour (PSYC 2240: Section S1): 2018-19
Biological Basis of Behaviour (PSYC 2240: Section B): 2017-18
Biological Basis of Behaviour (PSYC 2240: Section M): 2017-18
Biological Basis of Behaviour (PSYC 2240: Section B): 2016-17
Biological Basis of Behaviour (PSYC 2240: Section M): 2016-17
Neural Basis of Behaviour (PSYC 3250: Section N): 2016-17
Biological Basis of Behaviour (PSYC 2240: Section M): 2015-16
Biological Basis of Behaviour (PSYC 2240: Section B): 2015-16
Biological Basis of Behaviour (PSYC 2240: Section A S1): 2015
Neural Basis of Behaviour (PSYC 3250: Section N): 2014-15
Neural Basis of Behaviour (PSYC 3250: Section B): 2014-15
Neural Basis of Behaviour (PSYC 3250: Section A): 2011-12
Neural Basis of Behaviour (PSYC 3250: Section N): 2010-11
Neural Basis of Behaviour (PSYC 3250: Section A): 2010-11
Neural Basis of Behaviour (PSYC 3250: Section N): 2008-09 ***nominated for a Faculty of Health teaching award as the representative from Psychology**
Neural Basis of Behaviour (PSYC 3250: Section M): 2008-09
Neural Basis of Behaviour (PSYC 3250: Section P): 2007-08
Neural Basis of Behaviour (PSYC 3250: Section N): 2007-08
Neural Basis of Behaviour (PSYC 3250: Section P): 2006-07

INDEPENDENT RESEARCH COURSES DIRECTED:

Luthera, Prerna: Training choreography for bharatanatyam eye dance. (KINE4890 6.0) 2018-19
Sayrafizadeh, Negar: Model of Parkinson's and dance. (PSYC4890 3.0) 2018-19
Mak, Tiffany: Speech analysis Parkinson's disease. (PSYC4890 6.0) 2018-19

Ziavras, Victoria: Training choreography for bharatanatyam eye dance. (PSYC4890 3.0) 2018
Tehrani, Hedieh: Knowledge translation in neuroimaging of mental health. (PSYC4890 3.0) 2017
Ciantar, Sarah: Experimental data collection and analysis? (PSYC4890 3.0) 2016-17
Cohen, Remy: Experimental data collection and analysis? (PSYC4890 6.0) 2016-17
Simone, Stephanie: Neural processing in normals and abnormals? (PSYC4890 6.0) 2015-16
Simans-Cherniavsky, Allen: What is the neural basis of ASMR? (PSYC4890 6.0) Summer 2015
Gabriel, Grace: Can eye movements examine body perception? (PSYC4890 6.0) Summer 2015
Shaw, Kiera: Dance for Parkinson's research assistant. (Dance Science 4000 9.0) 2014-2015
Garzaro, Isabel: Dance for Parkinson's research assistant. (Dance Science 4000 6.0) 2014-15
Roman, Juliana: Dance for Parkinson's research assistant. (Dance Science 4000 6.0) 2014-15
Saleemi, Somayya: Neural Basis of Synesthesia. (PSYC4890 6.0) 2012-2013
Leger, Charles: What effect does training have on the emotional stroop task. (PSYC4890 3.0) 2011-12
Levkov, Gaby: Literature review: Inferior frontal junction. (PSYC4890 3.0) 2011-12
Verdichevski, Marina: Literature review: Can eye movement tasks aid in understanding the neural circuitry of Problem Gamblers? (PSYC4890 6.0) 2011-12
Munro, Scott: fMRI and Experimental Psychology. (PSYC4890 6.0SU) 2011
Greenberg, Anastasia: MEG analysis of antisaccade preparation. (PSYC4890 3.0W) 2010-11
Uta, Sorin: Analysis of attention during eye movement exercises. (PSYC4890 6.0) 2009-10
Clayton, Holly: Analysis of neural and behavioural data in primates using MATLAB. (PSYC4890 6.0) 2009-10
Dhindsa, Kiret: Understanding the role of the pineal gland in humans. (PSYC4890 6.0) 2009-10
Markovik, Simona: Psychology student began analyze fMRI project examining memory-guided pointing and brain inflation and flattening techniques. (PSYC3890 6.0 SU) 2008
Meza, Cecilia: Psychology student continued advanced fMRI project examining memory-guided saccades analysis and presentation skills. (PSYC4890 6.0 SU) 2008
Wang, Sheng-hua: Psychology student continued advanced fMRI project examining memory-guided saccades analysis, presentation skills and brain inflation and flattening techniques. (PSYC4890 6.0 SU) 2008
Abraham, Nachum: Examination of eye positions signals in MT and somatosensory areas in humans and primates (literature review). (PSYC4890 3.0W) 2008
Pynn, Laura: Psychology student examined the mirror neuron network in humans and primates (literature review). (PSYC4890 3.0W) 2008
Chan, Jolie: Psychology student was taught to analyze fMRI project examining memory-guided saccades. (PSYC4890 6.0) 2007-8
Wang, Sheng-hua: Psychology student was taught to analyze fMRI project examining memory-guided saccades. (PSYC4890 6.0) 2007-8
Meza, Cecilia: Psychology student was taught to analyze fMRI project examining memory-guided saccades. (PSYC3890 6.0) 2007-8
Hoover, Adria: Psychology student was taught to analyze fMRI project examining frontal cortex supression signals. (PSYC3890 6.0SU) 2007
Ovaysikia, Shima: Psychology student was taught to analyze fMRI project examining frontal cortex supression signals. (PSYC3890 6.0SU) 2007
Ostro, Daniel: Psychology student was taught to analyze fMRI project examining pro and anti-saccade studies with a poster presenation. (PSYC3890 3.0W) 2007
Ehrlich, Mikhal: Psychology student was taught to analyze fMRI project examining pro and anti-saccade studies with a poster presenation. (PSYC3890 3.0W) 2007
Hoover, Adria: Psychology student was taught to analyze fMRI project examining pro and anti-saccade studies. (PSYC3890 3.0W) 2007
Chan, Jolie: Psychology student was taught to analyze fMRI project examining pro and anti-saccade studies. (PSYC3890 6.0) 2006-7

HONOURS THESIS SUPERVISIONS:

Sheehy, Jim: Effects of Cannabis before and after legalisation in Canada PSYC4902 6.0 2020-21
Paliuso, Alyssa: Medication and falls in people with Parkinson's dancing PSYC4000 6.0 SU 2019
Morson, Olivia: Can theatre help people who are sad? PSYC4000 6.0 2018-19
Dastpak, Azin: Structural and Functional Connectivity of Attention Control and the Effect of Auditory Stimulus on Sustained Focus in ADHD: *The Virtual Brain Model*. BIO4000 8.0 2018-19
Weidman, Mollia: Creativity measured in people with Parkinson's through art? PSYC4000 6.0 2018-19
Cohen, Remy: Does behaviour correlate with increases in alpha frequency? PSYC4000 6.0 SU 2018
Sequira, Tyra: Functional connectivity in domestic abuse. PSYC4000 6.0 2017-18
Chung, Hayeon (Sally): Mindfulness, yoga, music and dance using rsEEG. PSYC4000 6.0 2017-18
Anika, Tahmina: Decomposing laterality in language and dance. PSYC4000 6.0 2017
Colley, Shanice: Decomposing music, video and multisensory responses in guitar. PSYC4000 6.0 2017
Costa, Stefano: Can we use TVB as a biomarker tool. PSYC4000 6.0 2017
Bashir, Swela: Expertise effects in viewing faces and bodies. PSYC4000 6.0 2016-17
Gunduz, Nisa: Biomarkers for Parkinson's. PSYC4000 6.0 2016-17
Gervais, Jeremy: Dance for Parkinson's disease revisited. PSYC4000 6.0 2016-17
Simans-Cherniavsky, Allen: EEG of ASMR? PSYC4000 6.0 2015-16
Martin, Kaili-Larissa: Neuropsychiatry & Mindfulness Meditation PSYC4000 6.0 2015-16
Behboudi, Minou: Does the feelings of joy/flow originate from the amygdala? PSYC4000 6.0 2015-16
Honarparvar, Faraz: Self-Prioritization with Geometric-Label Associations. PSYC4000 6.0 2015-16
Guida, Victoria: Visual Expertise in Body Recognition. PSYC4000 6.0 2014-15
Krishen, Parikrama: Visual Expertise in Biological Motion Perception of Dancers and Non-Dancers. PSYC4000 6.0 2014-15
Smith, Kelsi: Parkinson's Disease: Investigating Short-Term and Long-Term Impacts of Dance on Physical Functioning, Depression and Emotion. BIO4000 8.0 2014-15
McDonald, Katherine: A Brief Dance Intervention for Individuals with Parkinson's Disease: Investigating Short-Term and Long-Term Impacts of Dance on Physical Functioning and Quality of Life. PSYC4000 6.0 2013-14 AWARDED GORANSON AWARD FOR THESIS
Wiland, Michael: BCI Based on Steady State VEP Paradigm: Using a Consumer Grade EEG, Principle Component Analysis and Support Vector Classifier. PSYC4000 6.0 2013-14
Andrew, Ruth-Anne: Alpha Wave Activity During Kinesthetic Motor Imagery: An EEG Study of Dancers With and Without Musical Training. PSYC4000 6.0 2013-14
Tehrani, Hedieh: DTI scans in expert dancers over 34 weeks. PSYC4000 6.0 2012-13 AWARDED GORANSON AWARD FOR THESIS
Petina, Karina: Investigating neural substrates of dance? PSYC4000 6.0 2012-13
Chartrand, Julie: EEG examination of learning rehearsal? PSYC4000 6.0 2012-13
Bar, Rachel: The Effects of Rehearsal and Motor Learning: An fMRI Study of Classical Ballet Dancers PSYC4000 6.0 2011-12 AWARDED GORANSON AWARD FOR THESIS **Best poster award winner
Soeizi, Matin: Can tongue position in the mouth modulate attentional signals? PSYC4000 6.0 2011-12 AWARDED GORANSON AWARD FOR THESIS
Leger, Charles: How does the emotional stroop task vary with experience and meditation. PSYC4000 6.0SU 2011
Wong Kee You, Audrey: Saccadic processing during a working memory task. PSYC4000 6.0 2010-11 AWARDED GORANSON AWARD FOR THESIS
Sethi, Tallaha: Can the anti-saccade task correlate with gambling propensity? PSYC4000 6.0 2010-11
Tse, Shasha: Examination of sex differences in emotional processing during the Emotional Stroop task. PSYC4000 6.0A 2009-10 **MA Psych student at OISE, Toronto.*
Kucyi, Aaron: Do saccades modulate the length of the McCollough aftereffect? Evidence from psychophysics and fMRI BIO4000 8.0A 2008-9 *PhD student at Univ. of Toronto – Awarded CIHR fellowship: **Ranked #1 in Canada**
Markovik, Simona: fMRI examination of memory-guided pointing. PSYC4000 6.0A 2008-9 **Awarded*

NSERC for MSc in Neural Studies at Queen's University

Meza, Cecilia: Eye position examination of memory-guided saccades. PSYC4000 6.0A 2008-9 AWARDED GORANSON AWARD FOR THESIS **MSc Psychology student at Univ. of Waterloo*

Uta, Sorin: Disentangling attention from memory during memory guided saccades: an eyetracking study PSYC4000 6.0A 2008-9

Wang, Sheng-hua: B.A. The perception of speed discrimination in humans: evidence from psychophysics and magnetoencephalography (MEG). PSYC4000 6.0 2008-9 AWARDED GORANSON AWARD FOR THESIS **MA Psychology student at York Univ.*

Tahir, Khalid: B.Sc. Eye position modulation of somatosensory cortex. PSYC4000 6.0 2007-8 AWARDED GORANSON AWARD FOR THESIS **MD student at McMaster Univ. – Class of 2013*

Ford, Kristen: B.A. Psychology honours student was taught to present and analyze fMRI project examining the gap-effect during the anti-saccade task in Dr. Everling's lab. 2001-2 **Postdoctoral fellow University of Western Ontario Psychiatry*

Steele, Julia: Honours Physiology B.Sc. In Dr. Everling's lab taught B.Sc. Physiology student to present stimuli, analyze and present fMRI project examining the memory-guided saccades in Dr. Everling's lab. 2001-2

McIntosh, Kimberly: In Dr. Goodale's lab assisted B.A. Honours Psychology Thesis project involving reaching and graphing to illusory objects. 1996-7

Jackson, Christopher: In Dr. Goodale's lab assisted B.A. Honours Psychology Thesis project involving reaching and graphing to illusory objects. 1995-6

GUEST LECTURES IN OTHER COURSES:

Lecture at Concordia University, Montreal (Dance Movement Therapy – CATS 609A) by Joanabbey Sack: May 15th, 2015.

Two guest lectures describing research methods of fMRI for Research methods course (PSYC 3010B and PSYC 3010C) conducted by Dr. Kari Hoffman: 2007

Three guest lectures involving the senses of hearing and audition for Psychology of Perception course (PSY215b): 2001-2002

2. GRADUATE

COURSES TAUGHT:

Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2019-20
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2018-19
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2017-18
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2016-17
Interdisciplinary Studies 5000 (IS5000 6.0): 2016-17
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2015-16
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2014-15
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2011-12
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2010-11
Fundamentals of Neuroscience II: circuits, systems & behaviour (PSYC6253/BIO5147/KINE6156): 2009-10
Fundamentals of Neuroscience II: circuits, systems and behaviour (PSYC 6253 / BIO 5147 / KINE 6156): 2008-9 ***nominated for a graduate teaching award**

COMMITTEE / INDEPENDENT STUDY/ READING DIRECTED COURSES:

Ghasai, Katy: Music comprehensive PhD 2018-21
Chung-Fat-Yim, Ashley: A Closer look at Bilingualism and Attention (Dissertation committee) 2016-20
Barnstaple, Rebecca: Comprehensive in Dance studies: 2015-18
Di Nota, Paula: EO and EC anything to do with alpha and beta? (Psychology PhD MAP) 2013-17
Miller, Frances Grace: Music comprehensive PhD 2015-20
Barnstaple, Rebecca: Psychopathology & Motor Expressions: INST5020 3.0 2015-16
Rabinovich, Debora: Dance and Aging- A Critical Review of Findings in Neuroscience: (Psychology PhD

Research Practicum) 2014-15
Darr, Marwan: Incremental thresholds for radial frequency trajectories produce a dipper function: (Psychology PhD Minor Paper Proposal) 2014-15
McKetton, Larissa: Auditory processing in humans with absolute pitch, relative pitch, amusia, and sound-colour synesthesia as revealed by fMRI.: (Biology PhD Comprehensive) 2014
Daemi, Mehdi: Modelling of the head-unrestrained gaze shifts: (Biology PhD Comprehensive) 2012
Sahed, Morteza: Sensory and Motor Contribution of Primate Superior Colliculus to head-unrestrained gaze shifts: (Biology PhD Comprehensive) 2012
Sizintsev, Mikhail: PhD Examination Member, Computer Science, January 27, 2012
Clayton, Holly: PhD Committee Member, Kinesiology, 2012-15
Chen, Ying: PhD Comprehensive Exam, Kinesiology, April 18th, 2012
Nash, Kyle: Motivated Risk-Taking: An Anxiety-Regulation View (PSYC PhD) Committee member 2011-12
Hoover, Adria: Minor research paper: Eye movement inhibition examined using fMRI. PSYC 2012-13
Pritchett, Lisa: PhD committee member: PSYC 2011-14
Sajad, Amirsaman: Multisensory integration (audiovisual integration - from simple to complex stimuli): (Biology PhD Comprehensive) 2011
Reeve, Catherine: (PSYC MA) Committee member 2010-11
Rajchel, Joanna: The relationship between long-term memory and visual expectations in infancy: (PSYC MA) Committee member 2009-10
Chau, Vivian: A Visual adaptation of the Morris Water Maze: Flicker change detection reveals declarative/relational memory across species (Biology MSc) Committee member 2009-10
Thompson, Aidan: Efference copy signals in the normal and diseased brain: (KINE PhD Comprehensive) 2008-9
Kelly, Krista: Visual motion in enucleated patients (PSYC PhD) Committee member 2009-10
Pynn, Laura: MATLAB applications for Neuroscience research: (PSYC6710 6.0) 2008-9
Keith, Gerry: Minor research paper: PSYC 2007-9
Ovaysikia, Shima: Memory guided visual search experiments: (PSYC6710 3.0SU) 2007-8
Farshadmanesh, Farshad: Cortical control of gaze shifts: (Biology PhD Comprehensive) 2008
Tchernikov, Illia: Target Selection in Smooth Pursuit using Superimposed Surfaces: (KINE) 2006-8
Monteon, Jachin: Early pathways for vision: (Biology PhD Comprehensive) 2007

DOCTORAL THESIS SUPERVISIONS (**2 current**):

Bearss nee Beben, Karolina: PhD Psychology. Multisensory training in people with PD. 2015-
Rabinovich, Debora: PhD Psychology. Why is dance important across the lifespan. 2014-

DOCTORAL THESIS SUPERVISIONS (**3 Successfully defended**):

Di Nota nee Di Noto, Paula: PhD Psychology. Learning in the brain during visualization techniques with music: using EEG & fMRI. 2011-17
Fontanesi, Cecilia: PhD Neuroscience at City College of New York. Dance movement therapy and EEG effects. 2016-20
Leger, Charles: PhD Psychology. Structural Imaging of the subcortex in Migraineurs. 2014-19

MASTERS THESIS SUPERVISIONS (**8 Current**):

Gulati, Piyush: MA. Interdisciplinary Studies. Cloud database setup for modelling. 2019-21
Dogma, Pramod: MA. Interdisciplinary Studies. Machine learning and PD progression. 2019-21
Ciantar, Sarah: M.A. Psycholgy. Depression interactions with Parkinson's. 2018-20
Gurbaxani, Kareena: M.A. Psychology. Meditation and rsEEG. 2017-9
Bennet, Julia: M.A. Parttime. Interdisciplinary Studies. Join hands with your imaginary partner: building community through dance online during the COVID-19 pandemic. 2015-20
Clark, Laurena: M.A. Parttime Interdisciplinary Studies. Design of hospital settings. 2016-20

MASTERS THESIS SUPERVISIONS (**15 Successfully defended**):

Andrews, Ruth-Anne: M.A. Interdisciplinary Studies. Embodiment for dance for the disabled. 2015-21

Appelton, Robert: M.A. Interdisciplinary Studies. vorTEX (visual aural textual) A single multimedia language of words, pictures and sounds. 2017-9

Rogerson, Rebecca: M.A. Interdisciplinary Studies. *Izangoma* Trance Processes and Embodied Forms of Resistance: An Auto-Ethnographic Case of an Anomaly *Isangoma*. 2016-17 ***current prof at Seneca College**

McNight, Robert: M.A. Interdisciplinary Studies. iPod transplant. 2015-18 ***current teacher**

Barnstaple, Rebecca: M.A. Interdisciplinary Studies. Embodiment for dance. 2014-16 ***current PhD student**

Levkov, Gabriela Rose: M.Sc. Biology. The effects of dance on motor and non-motor functions, and resting state electroencephalography in individuals with Parkinson's disease and age-matched controls. 2012-15 ***practicing Laywer in downtown Toronto**

Leger, Charles: M.A. Psychology. The Effect of Professional Ballet Training on Brain Structure: A Tale of Two Fractional Anisotropy Metrics. 2012-14 ***current PhD student**

Di Noto, Paula: M.A. Psychology. A multimodal visuotacile illusion by monocular blindness via a black contact lens: tactile thresolds. 2009-11 ***current Postdoctoral fellow at UofT**

Wang, Sheng-hua: M.A. Psychology. Frontal cortex regions activated during detection of a subtle speed change: a MEG study. 2009-11 ***PhD student in Finland with Dr. Pavla**

Jobst, Cecilia: M.Sc. Biology. Variations of the Kaniza compression illusion induce compression and extention effects on perception and actions of the eye and hand. 2008-10 ***currently working in Doug Cheyne's laboratory at Sick-Kids hospital**

Pynn, Laura: M.A. Psychology. The effect of attention on unisensory and multisensory processing in the parieto-frontal network. 2008-10 ***current Indigo Acquistions**

Tahir, Khalid: M.Sc. Biology. Eye Position Modulation of the Somatosensory Cortex. 2008-10 ***McMaster medical school/ Internship Internal Medicine**

Olshansky, Michael: M.A. Psychology. Can experts convert sound into a mirror neuron network activity: Musicians viewing guitar music? 2012-14 ***Government employee**

Ovaysikia, Shima: M.A. Examining anti-saccades, stroop, and the emotional stroop tasks in frontal cortical areas in humans using fMRI. 2007-09 ***worked at University of California, Berkeley with Jonathan D. Wallis; now working at UCLA as researcher in Michelle Basso**

Savija, Nevena: M.Sc. Biology. Transient plasticity over 6 hours of blindness with implications for Glaucoma? 2012-15 ***McMaster PhD program**

MASTERS THESIS CO-SUPERVISIONS (**4 Successfully defended**):

Dhami, Prabhjot: M.Sc. Biology co-supervised with Sylvain Moreno (Baycrest). Partial Least Squares analysis of music to dance visualization over 8 months. 2013-15 ***current PhD student**

Leung, Samantha: M.Sc. Biology co-supervised with Colin Steel. The Effects of Melatonin on the Performance and Brain Activation of Desynchronized People Performing the executive function tasks. 2011-14
http://yorkspace.library.yorku.ca/xmlui/bitstream/handle/10315/28270/Leung_Samantha_E_2014_Masters.pdf?sequence=2

Tharani, Alzahir: M.Sc. Biology. Behavioural and neural recordings in awake behaving primates examining superior colliculus during head free gaze shifts. 2008-11 ***teachers college at University of Toronto**

Radik, Ruvim: M.Sc. Biology. Spatial updating of targets during pursuit movements. 2006-9 ***working at John P. Hussman Institute for Human Genomics in the Miller School of Medicine at the University of Miami with Dale J. Hedges**

3. OTHER PROFESSIONAL/TRANSLATIONAL ACTIVITIES

Our dance research was highlighted in documentary SYNAPSE DANCE by Karen Suzuki on Dance

research and at Dance for Parkinson's program at Canada's National Ballet School, April, 2016. http://www.imdb.com/title/tt4419150/?ref_=nm_ov_bio_lk2

Founding member for Dance for Parkinson's program collaboration with Canada's National Ballet School, September 13th, 2013. http://www.nbs-enb.ca/community/outreach/pd.aspx

Organized and participated in Dance for Parkinson's training workshop run by the Dance for Parkinson's/Brooklyn Parkinson Group/ Mark Morris Dance Group's David Leventhal, Canada's National Ballet School/York University, August 24th-25th, 2013 (20 people in attendance). http://danceforparkinsons.org/training-workshops

Matlab Analysis Fieldtrip Workshop, York University, March 9th-12th, 2013. http://fieldtrip.fcdonders.nl/workshop

Training school in TIMELY School on "Timing and Time Perception: Procedures, Measures, and Applications" lecturer, Corfu, Greece, February 4th to 8th, 2013. http://www.timely-cost.eu/training-school-5

Journalism 101 workshop with the Science Media Centre of Canada on October 23, 1-4:30 pm, 519 York Research Tower.

Summer school in Computational Sensory-Motor Neuroscience (CoSMo 2012) scientific conference, Kondrad Kording, Northwestern University, Feinberg School of Medicine, Chicago, Illinois, USA, August 5th to 19th, 2012. http://klab.smpp.northwestern.edu/wiki/index.php5/CoSMo_2012

German-Canadian Workshop, Frank Bremmer & D. Henriques, April 27-29, 2012.

Centre for Vision Research Summer school, Organizer, York University, Toronto, June 3th to 8th, 2012.

Teaching your students what they need to succeed: Library research, writing and critical thinking skills, Centre for the Support on Teaching, April 27, 2011.

The first Women's Brain Health Academic Symposium: AT THE CROSSROADS OF SEX, AGING & COGNITION. The Glen Gould Studio CBC Building, Toronto, April 6, 2011

Brain Voyager Advanced Course – San Francisco, 2009

Queen's University Imaging Centre – Training course 2008

McMaster University Brain Mind and Imaging Centre – Training course 2007

Moodle website course development 2006

4. COURSES TAUGHT AT OTHER INSTITUTIONS

Sheraly, Aly: State University of New York: Upstate Medical University, Syracuse, New York, USA. Visually guided antisaccades using event-related fMRI. (NEUR 2849 3.0): 2008-9

D. SERVICE

Appointments and Affiliations

Core Faculty, Department of Psychology
Core Faculty, Neuroscience Graduate Diploma Program
Member, Centre for Vision Research
Associate Member, VISTA
Mentor, CIHR Strategic Training Program in Vision Health Research
Member, Canadian Action and Perception Network (www.cap-net.ca)
Collaborator Computational Approaches in Neuroscience Action Control & Transformations
Collaborator Brain in Action
Associate Member, CIHR Group for Action and Perception
Associate Editor, Publisher, Integrative Neuroscience, 2017-
Associate Editor, Publisher, Vision, 2017-
Associate Editor, Publisher, Versita, 2010-14
Graduate Faculty, Department of Psychology
Graduate Faculty, Biology Department, 2016-

Graduate Faculty Executive, Interdisciplinary Studies, 2015-19
Fellow of Calumet College

ADMINISTRATIVE EXPERIENCE & Official leaves

***Sabbatical leave July 2019 to June 30, 2020**
***Primary Care Giver Leave March 1st, 2016 for 17 weeks**
Editorial Board member – Vision (http://www.mdpi.com/journal/vision)
Brain Behaviour and Cognitive Science Area Head, Psychology 2015-19
ACC membership 2015-19
Interdisciplinary Graduate Program Executive Committee membership 2015-20
Founding Member of Dance with Parkinson's at Canada's National Ballet School Committee 2012-2030
***returned from Primary Care Giver Leave May 2014 after 20 weeks**
Membership in International Brain Research Organization (IBRO) 2012
Advisory board member for Journal of Pakistan Psychological Association 2011-15
Centre for Vision Research Summer School Organizer 2011-12
HealthAid Network Workgroup in Faculty of Health 2011-12
Calumet College Academic Advisor 2011-12
Member of NSERC MSc rankings committee University level 2011
Member of NSERC PhD rankings committee University level 2011
Department of Psychology representative on E-learning workgroup for Faculty of Health 2011-12
Chair of Council of College Academic Advisors at York University 2011
Interim Chair of Council of College Academic Advisors at York University 2010
Member on Neuroscience Program/Diploma Steering Committee 2010-18
Retention Council 2010-2011
Member of NSERC MSc rankings committee University level 2010
Member of NSERC PhD rankings committee University level 2010
Member of steering committee for development of a HealthAid Program in Faculty of Health 2010-11
Retention Council 2010-11
Member of OGS, NSERC PhD rankings psychology department level 2010
Member of PhD rankings psychology department level 2010
Calumet College Academic Advisor 2010-11***returned from Primary Care Giver Leave May 2010**
Member on Neuroscience Program/Diploma Steering Committee 2006-9
Committee member involved in reviewing bids for purchase of MRI in CVR 2008-10
Council of College Academic Advisors 2009-10
Retention Council 2009-10
Calumet College Academic Advisor 2008-9
Master's Advisory Committee (Calumet College) 2008-11
Retention Council 2008-9
Teaching evaluation for Instructor in Department of Psychology, Neural Basis of Behaviour 2008
Representative on province-wide Ontario Graduate Scholarship 2008
Reviewer for NSERC Discovery grant 2008
Representative on Norman Endler Award Committee 2007
Founding member on York University Neuroscience Program/Diploma Steering Committee 2006-9
Representative on York University Vivaria Committee 2006-present
Representative on BBCS area OGS student rating committee 2006
Representative on Executive Committee for CIHR training grant Centre for Vision Research. 2005-6
Postdoctoral fellow representative for the Department of Physiology & Pharmacology. 2002-4
Academic Committee member Department of Physiology. 2000-1
Society of Graduate Studies Student Representitive within Neuroscience Program. 2000-1
Assistant Editor of the Western Journal of Graduate Research. 1997-1999
Co-Chair of the 2nd Annual Dean of Medicine's Margaret P. Moffat Research Day. 1997
Committee member of the Selection Committee for the Dean of Medicine Research Award. 1996-1997

Committee member for the First Annual Neuroscience Program Research Day. November 1996
Organizer and committee member for the 1st Annual Dean of Medicine's Margaret P. Moffat Research Day. 1995-1996
Student Liaison on Committee to Create a Center for Neuroscience in London, 1995-1996
Organizer of the 3rd Annual Neuroscience Programme's Poster and Seminar Day at the U.W.O. 1995
Neuroscience Graduate Program Student President, 1995-1996

E. NEWS

2020.05.20 Predictive Models Could Help Diagnose Early-stage Parkinson's, Study Finds https://parkinsonsnewstoday.com/2020/05/20/predictive-models-could-help-diagnose-early-stage-parkinsons-study-finds/ - :~:text=Predictive models can help diagnose,particularly significant for predicting Parkinson's.

2020.05.13 Y-File - Predictive models could help provide more accurate detection of early-stage Parkinson's disease https://yfile.news.yorku.ca/2020/05/13/predictive-models-could-help-provide-more-accurate-detection-of-early-stage-parkinsons-disease/

2020.05.11 Predictive models could help provide more accurate detection of early-stage Parkinson's disease https://news.yorku.ca/2020/05/11/predictive-models-could-help-provide-more-accurate-detection-of-early-stage-parkinsons-disease/

2020.05.11 Predictive models could provide more accurate detection of early-stage Parkinson's disease https://medicalxpress.com/news/2020-05-accurate-early-stage-parkinson-disease.html

2020.05.11 Predictive models could help provide more accurate detection of early-stage Parkinson's disease https://www.eurekalert.org/pub_releases/2020-05/yu-pmc051120.php

2020.05.11 Predictive models could help provide more accurate detection of early-stage Parkinson's disease https://news.yorku.ca/2020/05/11/predictive-models-could-help-provide-more-accurate-detection-of-early-stage-parkinsons-disease/

2019.04.30 Dancing Helps People With Parkinson's Disease https://www.forbes.com/sites/evaamsen/2019/04/30/dancing-helps-movement-for-people-with-parkinsons-disease/?sh=29dd5b9a4798

2019 Neuroscience and the arts: Highlights from the Society for Neuroscience Conference https://rehabinkmag.com/previous-issues/rehabink-winter-2019-volume-1-issue-6/neuroscience-and-the-arts-highlights-from-the-society-for-neuroscience-conference/

2018.11.05 Dancing for Parkinson's disease https://community.sfn.org/index.php?/topic/3726-poster-highlight-dance-for-parkinsons-disease/

2017.01.23 CTV National News - New research suggests that dancing improves movement control for people with Parkinson's disease http://www.cbc.ca/player/play/860742211930

2017.01.23 CBC News:Health - Dancing with Parkinson's research: Something about dancing seems to rewire the brain and create new pathways that control movement http://www.cbc.ca/news/health/parkinson-dance-1.3832945

2016.05.22 CTV News - Patients say dance therapy is cutting chronic pain http://www.ctvnews.ca/health/patients-say-dance-therapy-is-cutting-chronic-pain-1.2913159

2016.04.22 Dance therapy at Chigamik in Midland offers relief from chronic pain http://www.simcoe.com/community-story/6509858-dance-therapy-at-chigamik-in-midland-offers-relief-from-chronic-pain/

2016.04.18 CTV Barrie: Dance therapy for Pain http://barrie.ctvnews.ca/video?clipId=852125

2016.04.05 Barrie man ramps up fight against Parkinson's disease http://www.thebarrieexaminer.com/2016/04/03/april-is-parkinsons-awareness-month

2016.04.03 Toronto project demonstrates healing power of arts https://www.thestar.com/news/insight/2016/04/03/toronto-project-demonstrates-healing-power-of-arts.html

2016.04.02 Art for Health's Sake http://www.pressreader.com/canada/toronto-star/20160402/282849370124984/textview

2016.02.02 Brain changes in ballet dancers show how “practice makes perfect http://www.counselheal.com/articles/21121/20160202/brain-changes-ballet-dancers-show-practice-makes-perfect.htm

2016.02.01 Brain changes in ballet dancers support age-old “practice makes perfect” saying http://www.hngn.com/articles/175241/20160201/brain-changes-ballet-dancer-brains-support-age-old-practice-makes.htm

2016.01.30 Practice really DOES makes perfect: study shows how ballet dancer’s brains changes as they learn a new routine http://www.dailymail.co.uk/sciencetech/article-3423615/Practice-really-DOES-make-perfect-Study-shows-ballet-dancer-s-brains-change-learn-new-routine.html

2016.01.29 Science daily - Practice makes perfect, study confirms http://www.sciencedaily.com/releases/2016/01/160129170533.htm

2016.01.29 Practice makes perfect, York U brain study confirms http://news.yorku.ca/2016/01/29/practice-makes-perfect-york-u-brain-study-confirms/

2015.10.23 Dancing improves mobility and quality of life in people with Parkinson’s https://madmimi.com/p/9d54d6

2015.03.03 News regarding three location broadcast between Canada’s National Ballet School, Brooklyn Dance for PD and Houston Ballet http://capture.nbs-enb.ca/dwp.aspx

2014.12.01 Paula Di Noto researching her way to success and discovery http://www.panoramitalia.com/en/life-people/profiles/paula-di-noto-researching-success-discovery/2760/

2014.05.27 Just Dance: Can learning help people with Parkinson’s? http://digital.yorku.ca/i/319758/13

2014.04.07 Our lab and group dances at City Hall http://www.citynews.ca/2014/04/09/hope-in-bloom-tulip-campaign-for-parkinsons-underway/

2013.11.19 Parkinson Society News Media Release http://www.cno.parkinson.ca/atf/cf/%7B7ed31649-7286-42cc-b7d1-9743d23563f0%7D/MEDIA_CNORESEARCHEVENTNEWSRLEEASE%20FOR%202013%20(1)%20EDITED.PDF

2013.11.27 Parkinson’s Study at Centre Stage http://www.rbnonline.ca/media/28264/

2013.10.21 National Ballet School News Release http://www.nbs-enb.ca/media/Dancing%20with%20Parkinson's%20at%20NBS_Press%20Release_ENG1.pdf#zoom=100

2013.10.22 City News Covers Dancing with Parkinson’s at the National Ballet School http://www.citynews.ca/2013/10/22/study-with-national-ballet-school-aims-to-see-if-dance-can-help-parkinsons-patients/

2013.10.22 CBC News Covers Dancing with Parkinson’s at the National Ballet School http://www.cbc.ca/news/health/how-do-dance-lessons-retrain-brain-in-parkinson-s-patients-1.2158905

2013.10.22 CBC News Covers Dancing with Parkinson’s at the National Ballet School (Video starting at 12:58) http://www.cbc.ca/player/News/Canada/Toronto/CBC+News%3A+Toronto+at+6%3A00/ID/2413674217/

2013.10.22 CTV News Covers Dancing with Parkinson’s at the National Ballet School http://toronto.ctvnews.ca/video?playlistId=1.1508746#1029048

2013.10.22 The Huffington Post Covers Dancing with Parkinson’s at the National Ballet School http://www.huffingtonpost.ca/2013/10/22/study-with-national-balle_n_4145382.html

2013.10.22 Metro News Covers Dancing with Parkinson’s at the National Ballet School (English and French) http://metronews.ca/news/canada/831871/study-looks-at-dance-to-help-parkinsons-disease/

2013.10.22 The Canadian Press Covers Dancing with Parkinson’s at the National Ballet School

http://ca.news.yahoo.com/video/dance-help-parkinsons-disease-193000318.html

2013.10.22 Winnipeg Free Press Covers Dancing with Parkinson's at the National Ballet School http://www.winnipegfreepress.com/arts-and-life/life/health/study-with-national-ballet-school-aims-to-see-if-dance-can-help-parkinsons-patients-228846861.html

2013.10.23 The Windsor Star Covers Dancing with Parkinson's at the National Ballet School http://www.windsorstar.com/health/Study+with+National+Ballet+School+aims+dance+help+Parkinsons/9068567/story.html

2013.10.23 The Calgary Herald Covers Dancing with Parkinson's at the National Ballet School http://www.calgaryherald.com/health/Study+with+National+Ballet+School+aims+dance+help+Parkinsons/9068567/story.html

2013.10.23 Ottawa Citizen Covers Dancing with Parkinson's at the National Ballet School http://www.montrealgazette.com/health/Study+with+National+Ballet+School+aims+dance+help+Parkinsons/9068567/story.html

2013.10.23 The Montreal Gazette Covers Dancing with Parkinson's at the National Ballet Schoo http://www.ottawacitizen.com/health/Study+with+National+Ballet+School+aims+dance+help+Parkinsons/9068567/story.html

2013.10.23 Kiah Welsh Humber's Radio Show (96.9 FM) Interview

2013.10.24 The Vancouver Sun Covers Dancing with Parkinson's at the National Ballet School http://www.vancouversun.com/health/study+with+national+ballet+school+aims+dance+help+parkinsons/9068567/story.html

2013.10.24 The Goan Voice reports on Dancing with Parkinson's at the National Ballet School media coverage http://www.goanvoice.org.uk/printerfile.php?link=2013-10-24

2013.10.24 The Globe and Mail Covers Dancing with Parkinson's at the National Ballet School http://www.theglobeandmail.com/life/health-and-fitness/health/dance-appears-to-help-parkinsons-patients-now-scientists-aim-to-find-out-why/article15041909/

2013.10.24 The Globe and Mail Covers Dancing with Parkinson's at the National Ballet School (video) http://www.theglobeandmail.com/life/life-video/video-can-dance-help-parkinsons-disease/article15025810/2013.08.01 National Ballet School's pilot Dance with Parkinson's class is advertizing for first class http://www.nbs-enb.ca/community/outreach/pd.aspx

2013.07.02 CNN reports our lab's upcoming work with Dance for Parkinson's http://whatsnext.blogs.cnn.com/2013/07/02/combating-disease-with-dance-a-new-approach-to-parkinsons/

2013.04.17 Lab member featured in York University's Y-File http://yfile.news.yorku.ca/2013/04/16/brains-memory-autism-psychology-student-research-rich-and-varied/?utm_source=YFile_Email&utm_medium=email&utm_campaign=MorningEmail

2013.03.21 – Publication in PLOS ONE: Eye exercises improve attention and memory - http://news.yorku.ca/2013/03/21/eye-exercises-improve-attention-and-memory-but-not-reaction-time-york-u-study/

2013.02.04 – CBC International Radio - http://www.rcinet.ca/english/daily/interviews-2012/13-42_2013-02-04-dance-to-be-tested-as-a-therapy-for-parkinson-s/

2012.12.17 – Dance to be tested as a therapy for Parkinson's - http://yfile.news.yorku.ca/2012/12/17/donation-will-help-fund-research-into-dancing-and-parkinsons-disease/

2012.02.15 – Montreal Gazette - http://www.montrealgazette.com/news/stop+stare+help+instinct/6137358/story.html

2012.01.25 – Lab awarded CFI funding http://yfile.news.yorku.ca/2012/01/25/cfi-awards-york-researchers-more-than-950000/

2012 Fall – Russian One Video of our Response Inhibition lab work - http://vimeo.com/52160707 scroll to 40mins for our lab

2012.01.06 – Our lab's Journal of Neuroscience paper is published - Brain to blame for wandering eyes http://yfile.news.yorku.ca/2012/01/06/brain-to-blame-for-wandering-eyes/

2011.12.19 – GOAN Voice News in UK http://www.goanvoice.org.uk/printerfile.php?link=2011-12-19

2011.12.15 – Lethbridge Herald - http://lethbridgeherald.com/national-news/toad-like-inner-eye-makes-it-hard-to-look-away-york-researcher-says.html
2011.01.05 – Frontiers article is published - http://research.news.yorku.ca/2011/01/05/centre-for-vision-research-study-pinpoints-part-of-brain-that-suppresses-automatic-responses/
2010.06.01 – Our lab running for Health – http://yfile.news.yorku.ca/2010/06/01/yorks-faculty-of-health-walks-%E2%80%93-and-runs-%E2%80%93-the-talk/

F. CURRENT DATE

2021.08.11