

**Gary R. Turner**  
*Curriculum Vitae*

Director, Cognitive Neuroscience and Neurointervention Laboratory  
Associate Professor, Department of Psychology  
York University  
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**ACADEMIC POSITIONS**

- 2016 – **Associate Professor** (tenured), Department of Psychology, Faculty of Health, York University, Toronto, ON, Canada  
2011 – 2016 **Assistant Professor**, Department of Psychology, Faculty of Health, York University, Toronto, ON, Canada  
2010 – 2011 **Scientist**, Centre for Stroke Recovery and Brain Sciences Research Program, Sunnybrook Health Sciences Center, Toronto, ON, Canada

**POST-DOCTORAL TRAINING AND EDUCATION**

- 2010 – 2011 **Clinical internship** in neuropsychology, supervised practice (mentor: Brian Levine)  
2007 – 2009 **Postdoctoral fellow**, University of California, Berkeley (mentor: Mark D'Esposito)  
2001 – 2008 **Ph.D.** Psychology, University of Toronto, Toronto, Canada  
1999 – 2001 **M.A.** Psychology, University of Toronto, Toronto, Canada  
1996 – 1999 **B.A.** (Honours, *summa cum laude*), Psychology, York University, Toronto, Canada

**CREDENTIALS**

- 2012 – **Registered Psychologist** with the College of Psychologists of Ontario (Adult Clinical Neuropsychology)

**RESEARCH GRANTS**

**Current**

- 2024 – 2029 **Canadian Institute of Health Research**  
**Principal Investigator** (co-P.I.: R. Nathan Spreng)  
Neurocognitive aging and decision-making. C\$1,138,100  
2019 – 2025 **Natural Sciences and Engineering Research Council of Canada**  
**Principal Investigator** NSERC Discovery Grant  
Shifting architecture of brain and cognition across the lifespan. C\$294,000 total.

**Completed**

- 2018 – 2023 **Canadian Institutes of Health Research**  
**Co-Investigator** (R.N. Spreng P.I.) Project Grant  
 Brain networks and neurocognitive aging. C\$539,325 total.
- 2019 – 2020 **National Institute of Aging**  
**Co-Investigator** R01 AG057764A *Supplement* (co-P.I.: Natalie Ebner) \$250,000 USD.  
 Alzheimer's disease Supp: *Uncovering & surveilling financial deception risk in aging.*
- 2023 – 2024 **Natural Sciences and Engineering Research Council of Canada**  
**Co-Investigator** NSERC RTI  
 Enhanced Neuroimaging Infrastructure for Innovative Visual Neuroscience. C\$96,979
- 2015 – 2016 **Natural Sciences and Engineering Research Council of Canada**  
**Co-Principal Investigator** Research Technology Infrastructure Grant. (J. Steeves, Co-P.I.)  
 Multi-User MRI Computing Cluster and Visual Projection System. C\$ 76,000 total.
- 2015 – 2018 **Canadian Foundation for Innovation, Ontario Research Fund**  
**Co-Investigator** John Evans Leadership Fund Grant (W.D. Stevens, P.I.)  
 Neurocognitive Aging: Bridging the Gap Between Neuroscience and  
 Neuro-Intervention. C\$400,000 total.
- 2013 – 2015 **Canadian Institute of Health Research**  
**Principal Investigator** CIHR/IRSC Catalyst Grant  
 Aging and large-scale brain networks: Using functional connectivity and structural covariance  
 modeling to predict conversion from normal to pathological aging. C\$85,000 total.
- 2012 – 2019 **Natural Sciences and Engineering Research Council of Canada**  
**Principal Investigator** NSERC Discovery Grant  
 Mapping neural mechanisms subserving executive control processes  
 across the adult lifespan: a functional network perspective. C\$174,000 total.
- 2013 – 2014 **Heart and Stroke Foundation Centre for Stroke Recovery**  
**Co-Principal Investigator** Catalyst Grant (C. Alain, Co-P.I.)  
 Combined EEG/fMRI biomarker development for covert stroke and  
 small vessel disease. C\$50,000 total.
- 2013 – 2014 **Canadian Institute of Health Research**  
**Co-Investigator** CIHR/IRSC Catalyst Grant for e-health innovation (E. Marziali, P.I.)  
 Web-delivery of cognitive rehabilitation. C\$100,000 total.
- 2012 – 2014 **Canadian Institutes of Health Research**  
**Co-Investigator** CIHR/IRSC Catalyst Grant for e-health innovation (R. Green, P.I.)  
 Improving the quality of mental health services for older adults. C\$132,000 total.
- 2009 – 2014 **Canadian Institutes of Health Research**  
**Co-Investigator** Project Grant (B. Levine, P.I.)  
 Diffuse brain damage effects on distributed systems: multimodal brain imaging and  
 rehabilitation. C\$853,770 total.

- 2009 – 2012 **National Institute of Aging**  
**Co-Principal Investigator** R01 AG034642 (M. D’Esposito, P.I.)  
 Enhancing executive control functioning in healthy aging: an integrated rehabilitation neuroscience approach. US\$570, 000 total.
- 2010 – 2011 Ontario Stroke Network  
**Principal Investigator** Program Fund  
 Cognitive training in secondary stroke prevention. C\$14,035 total.

## RECOGNITIONS AND HONOURS

- 2017 Elected as member of the International Society for Behavioural Neuroscience
- 2015 Faculty of Graduate Studies Teaching Award (nominee). York University.
- 2015 President’s University Teaching Award (nominee). York University.
- 2014 Dean’s Early Career Research Award, Faculty of Health, York University.
- 2008 – 2009 Heart and Stroke Foundation of Canada, Focus on Stroke Personnel Award (\$90,000)
- 2008 University of Toronto, Department of Psychology, Nominee for Doctoral Dissertation Research Awards; Natural Sciences and Engineering Research Council; Canadian Association of Graduate Schools.
- 2006 Department of Occupational Science and Occupational Therapy, University of Toronto. Teaching Excellence Award: Overall outstanding contribution to occupational therapy education.
- 2003 – 2005 Ontario Graduate Scholarships (\$15,000)
- 2002 – 2003 Natural Sciences and Engineering Research Council of Canada, Post-Graduate Scholarship Award (\$40,000)
- 1999 Graduating Class Valedictorian (highest academic achievement in the graduating class). Atkinson College, York University (1999).

## PUBLICATIONS

**Journal Articles Published or In Press** († mentee author; \* 100+ citations; total citations: ~6700+; h-index: 41; i10-index: 72; citation metrics from Google Scholar)

- [80] Diplock, B.D., Urusov, A., Torchia, A., Turner, G.R., Desrocher, M.E. (2025). Psychological interventions for externalising behaviours following paediatric traumatic brain injury: a systematic review and clinical practice recommendations. *Brain Impairment*. 26:IB24092.
- [79] Hughes, C., Polk, R., Heemskerk, A., Pehlivanoglu, D., **Turner, G.R.**, Ebner, N. & Spreng, R.N. (2025). Age differences in mental state inference of sarcasm: Contributions of facial emotion recognition and cognitive performance. *The Journals of Gerontology: Series B: Psychological Sciences and Social Sciences*. *The Journals of Gerontology: Series B*, 80, gbae188.
- [78] Hughes, C., Setton, R., Mwilambwe-Tshilobo, L., Baracchini, G., **Turner, G.R.** & Spreng, R.N. (2024). Precision mapping of the default network reveals common and distinct (inter)activity for autobiographical memory and theory of mind. *Journal of Neurophysiology*, 132, 375–388.
- [77] Heemskerk, A., Lin, T., Pehlivanoglu, D., Hernandez, P. V., Grilli, M. D., Wilson, R. C., **Turner, G.R.**, Spreng, R.N. & Ebner, N.C. (2024). Interoceptive accuracy enhances deception detection in older adults. *The Journals of Gerontology: Series B: Psychological Sciences and Social Sciences*, 79, gbae151.
- [76] Pehlivanoglu, D., Shoenfelt, A., Hakim, Z., Heemskerk, A., Zhen, J., Mosqueda, M., Wilson, R.C., Huentelman, M., Grilli, M., **Turner, G.R.**, Spreng, R.N. & Ebner, N.C. (2024). Phishing

vulnerability compounded by older age, APOE4 genotype, and lower cognition. *PNAS Nexus*, 3, pgae296.

- [75] Girn, M., Setton, R., **Turner, G.R.** & Spreng, R.N. (2024). The "limbic network", comprising orbitofrontal and anterior temporal cortex, is part of an extended default network: Evidence from multi-echo fMRI. *Network Neuroscience*, 8, 860–882.
- [74] Wearn, A., Tremblay, S.A., Tardif, C.L., Leppert, I.R., Gauthier, C., Baracchini, G., Hughes, C., Hewan, P., Tremblay-Mercier, J., Poirier, J., Villeneuve, S., Schmitz, T.W., **Turner, G.R.**, & Spreng, R.N. (2024). Neuromodulatory subcortical nucleus integrity is associated with white matter microstructure, tauopathy and APOE status. *Nature Communications*, 15, 4706.
- [73] **Turner, G.R.**, †Hewan, P., Wearn, A., van Dooren, R., †Wyatt, L., Leppert, I.R., Baracchini, G., Hughes, C., Williams, K.M., Sylvain, E., Tremblay-Mercier, J., Poirier, J., Villeneuve, S., Tardif, C.L., & Spreng, R.N. (2024). Locus coeruleus integrity is related to an exploitation-based decision-making bias in older adulthood. *Proceedings of the National Academy of Sciences USA*, 121(22), e2322617121.
- [72] Zhou, J., Wearn, A., Huck, J., Hughes, C., Baracchini, G., Tremblay-Mercier, J., Poirier, J., Villeneuve, S., Tardif, C.L., Chakravarty, M.M., Daugherty, A.M., Gauthier, C., **Turner, G.R.**, & Spreng, R.N. (2024). Iron deposition and distribution across the hippocampus is associated with pattern separation and pattern completion in older adults at risk for Alzheimer's disease. *Journal of Neuroscience*, 44(19): e1973232024.
- [71] Snytte, J., Setton, R., Mwilambwe-Tshilobo, L., Rajah, M.N., Sheldon, S., **Turner, G.R.** & Spreng, R.N. (2024). Multidimensional episodic memory in older adults is linked to structure-function interactions between the hippocampus and prefrontal cortex. *eNeuro*, 11(3), eneuro.0418-23.2023.
- [70] Sheldon, S., Sheldon, J., Zhang, S., Setton, R., **Turner, G.R.**, Spreng, R.N. & Grilli, M.D. (2024). Age differences in the content and coherence of autobiographical memories: Insights from text analysis. *Psychology & Aging*, 39, 59–71.
- [69] †Levi, A., †Pugsley, A., Fernandes, M. A., **Turner, G. R.**, & Gilboa, A. (2024). Drawing improves memory in patients with hippocampal damage. *Mem Cognit.* doi: 10.3758/s13421-023-01505-4
- [68] †Wyatt, L.A., †Hewan, P.A., Hogeveen, J., Spreng, R.N. & **Turner, G.R.** (2024). Exploration versus exploitation decisions in the human brain: A systematic review of functional neuroimaging and neuropsychological studies. *Neuropsychologia*, 192, 108740.
- [67] Lockrow, A.W., Setton, R., Spreng, K.A.P., Sheldon, S., **Turner, G.R.** & Spreng, R.N. (2024). Taking stock of the past: A psychometric assessment of the Autobiographical Interview. *Behavior Research Methods*, 56, 1002-1038.
- [66] Mwilambwe-Tshilobo, L., Setton, R., Bzdok, D., **Turner, G.R.** & Spreng, R.N. (2023). Age differences in functional brain networks associated with loneliness and empathy. *Network Neuroscience*, 7, 496–521.
- [65] Pehlivanoglu, D., Lin, T., Lighthall, N., Heemskerk, A., Harber, A., Wilson, R.C., **Turner, G.R.**, Spreng, R.N. & Ebner, N.C. (2023). Facial trustworthiness perception across the adult lifespan. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences* 78, 434–444.

- [64] Setton, R., Mwilambwe-Tshilobo, L., Girn, M., Lockrow, A.W., Baracchini, G., Hughes, C., Lowe, A.J., <sup>†</sup>Cassidy, B.N., Li, J., Luh, W.-M., Bzdok, D., Leahy, R.M., Ge, T., Margulies, D.S., Mišić, B., Bernhardt, B.C., Stevens, W.D., De Brigard, F., Kundu, P., **Turner, G.R.** & Spreng, R.N. (2023). Age differences in the functional architecture of the human brain. *Cerebral Cortex*, 33, 114–134.
- [63] Setton, R., Mwilambwe-Tshilobo, L., Sheldon, S., **Turner, G.R.** & Spreng, R.N. (2022). Hippocampus and temporal pole functional connectivity is associated with age and individual differences in autobiographical memory. *Proceedings of the National Academy of Sciences USA*, 119, e2203039119.
- [62] Lin, T., Horta, M., Heald, K., Heemskerk, A., <sup>†</sup>Darboh, B., <sup>†</sup>Levi, A., Spreng, R.N., **Turner, G.R.** & Ebner, N.C. (2022). Loneliness progression among older adults during the COVID-19 pandemic in the United States and Canada. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 77, 23–29.
- [61] Setton, R., Sheldon, S., **Turner, G.R.** & Spreng, R.N. (2022). Temporal pole volume is associated with episodic autobiographical memory in healthy older adults. *Hippocampus*, 32, 373–385.
- [60] Spreng, R.N., Setton, R., <sup>†</sup>Alter, U., <sup>†</sup>Cassidy, B.N., <sup>†</sup>Darboh, B., DuPre, E., <sup>†</sup>Kantarovich, K., Lockrow, A.W., Mwilambwe-Tshilobo, L., Luh, W.-M., Kundu, P. & **Turner, G.R.** (2022). Neurocognitive aging data release with behavioral, structural and multi-echo functional MRI measures. *Scientific Data*, 9, 119.
- [59] <sup>†</sup>Kantarovich, K., <sup>†</sup>Mwilambwe-Tshilobo, L., <sup>†</sup>Fernandez-Cabello, S., <sup>†</sup>Setton, R., <sup>†</sup>Baracchini, G., <sup>†</sup>Lockrow, A.W., Spreng, R.N. & **Turner, G.R.** (2022). White matter lesion load is associated with lower within- and greater between- network connectivity across older age. *Neurobiology of Aging*, 112, 170–180.
- [58] Huang, S., Faul, L., Sevinc, G., Mwilambwe-Tshilobo, L., Setton, R., Lockrow, A.W., Ebner, N.C., **Turner, G.R.**, Spreng, R.N. & De Brigard, F. (2022). Age differences in intuitive moral decision-making: Associations with inter-network neural connectivity. *Psychology & Aging*, 36, 902–916.
- [57] Setton, R., Lockrow, A.W., **Turner, G.R.** & Spreng, R.N. (2022). Troubled past: A critical psychometric assessment of the self-report Survey of Autobiographical Memory (SAM). *Behavior Research Methods*, 54, 261–286.
- [56] Spreng, R.N. & **Turner, G.R.** (2021). From exploration to exploitation: A shifting mental mode in late life development. *Trends in Cognitive Sciences*, 25, 1058-1071.
- [55] Baracchini, G., Mišić, B., Setton, R., Mwilambwe-Tshilobo, L., Girn, M., Nomi, J.S., Uddin, L.Q., **Turner, G.R.** & Spreng, R.N. (2021). Inter-regional BOLD signal variability is an organizational feature of functional brain networks. *NeuroImage*, 237, 118149.
- [54] Spreng, R.N., Dimas, E., Mwilambwe-Tshilobo, L., Dagher, A., Koellinger, P., Nave, G., Ong, A., Kernbach, J., Wiecki, T. Ge, T., Li, Y., Holmes, A.J., Yeo, B.T.T., **Turner, G.R.**, Dunbar, R.I.M. & Bzdok, D. (2020). The default network of the human brain is associated with perceived social isolation. *Nature Communications*, 11, 6393.

- [53] Laurita, A.C., DuPre, E., Ebner, N.C., **Turner, G.R.** & Spreng, R.N. (2020). Default network interactivity during mentalizing about known others is modulated by age and social closeness. *Social Cognitive & Affective Neuroscience*, 15, 537–549.
- [52] Ebner, N.C., Ellis, D.M., Lin, T., Rocha, H.A., Yang, H., Dommaraju, S., Soliman, A., Woodard, D.L., **Turner, G.R.**, Spreng, R.N. & Oliveira, D. (2020). Uncovering susceptibility risk to online deception in aging. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 75, 522–533.
- [51] Maillet, D., Beaty, R.E., †Adnan, A., Fox, K.C.R., **Turner, G.R.\***, & Spreng, R.N. (2019). Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts. *Public Library of Science (PLoS) ONE*. 14(10): e0223981.
- [50] Spreng, R.N., Fernandez-Cabello, S., **Turner, G.R.** & Stevens, W.D. (2019). Take a deep breath: Multi-echo fMRI denoising effectively removes head motion artifacts, obviating the need for global signal regression. *Proceedings of the National Academy of Sciences USA*. (Letter), 116, 39, 19241–19242.
- [49] †Lemire-Rodger, S., †Lam, J., Viviano, J., Stevens, W.D., Spreng, R.N. & **Turner, G.R.** (2019). Inhibit, switch and update: A within-subject fMRI investigation of executive control. *Neuropsychologia*, 132, 107134.
- [48] †Simic, T., Bitan, T., **Turner, G.R.**, Chambers, C., Goldberg, D., Leonard, C. & Rochon, E. (2019). The role of executive control in post-stroke aphasia treatment. *Neuropsychological Rehabilitation*, 1-40. DOI: 10.1080/09602011.2019.1611607
- [47] Spreng, R.N. & **Turner, G.R.** (2019). The shifting architecture of cognition and brain function in older adulthood. *Perspectives on Psychological Science*, 14, 523–542.
- [46] †Dimech, C.J., Anderson, J.A.E., Lockrow, A.W., Spreng, R.N. & **Turner, G.R.** (2019). Sex differences in the relationship between cardiorespiratory fitness and brain function in older adulthood. *Journal of Applied Physiology*, 126, 1032–1041.
- [45] †Barlow-Krelina, E., **Turner, G.R.**, Akbar, N., Banwell, B., Lysenko, M., Yeh, E.A., Narayanan, S., Collins, D.L., Aubert-Broche, B., and Till, C. (*in press*). Enhanced Recruitment During Executive Control Processing in Cognitively Preserved Patients with Pediatric-Onset MS. *Journal of the International Neuropsychological Society*, 25, 432–442.
- [44] †Dey, A.K., Stamenova, V., Bacopulos, A., Jeyakumar, N., **Turner, G.R.**, Black, S.E., and Levine, B. (2019). Cognitive heterogeneity among community-dwelling older adults with cerebral small vessel disease. *Neurobiology of Aging*, 77, 183–193.
- [43] †Curtis, A.F., **Turner, G.R.**, Park, N.W., and Murtha, S.J.E. (2019). Improving visual spatial working memory in younger and older adults: effects of cross-modal cues. *Neuropsychology, Development, and Cognition, Section B, Aging, Neuropsychology and Cognition*, 26, 24-43.
- [42] †Adnan, A., Beaty, R., †Lam, J., Spreng, R.N. & **Turner, G.R.** (2019). Intrinsic default – executive coupling of the creative aging brain. *Social Cognitive & Affective Neuroscience*, 14, 291–303.
- [41] †Adnan, A., Beaty, R., Silvia, P., Spreng, R.N. & **Turner, G.R.** (2019). Creative aging: Functional brain networks associated with divergent thinking in older and younger adults. *Neurobiology of Aging*. 75, 150–158.

- [40] <sup>†</sup>Sullivan, M.D., Anderson, J.A.E., **Turner, G.R.** & Spreng, R.N. (2019). Intrinsic neurocognitive network connectivity differences between normal aging and mild cognitive impairment are associated with cognitive status and age. *Neurobiology of Aging*, 73, 219–228.
- [39] **Turner, G.R.**, Novakovic-Agopian, T., <sup>†</sup>Kornblith E., <sup>†</sup>Adnan A., Madore, M., Chen, A.J.W., & D'Esposito, M. (2020). Goal-Oriented Attention Regulation (GOALS) training in older adults. *Aging and Mental Health*. 24(3):464-473
- [38] Maillet, D., Beaty, R.E., Jordano, M.L., Touron, D.R, <sup>†</sup>Adnan, A., Silvia, P.J., Kwapil, T.R., **Turner, G.R.**, Spreng, R.N., Kane, M.J. (2018). Age-related differences in mind-wandering in daily life. *Psychology and Aging*, 33, 643–653.
- [37] Spreng, R.N., Lockrow, A.W., DuPre, E., Setton, R., Spreng, K.A.P. & **Turner, G.R.** (2018). Semanticized autobiographical memory and the default – executive coupling hypothesis of aging. *Neuropsychologia*. 110, 37–43. <https://doi.org/10.1016/j.neuropsychologia.2017.06.009>.
- [36] Wang, H., Pexman, P.M., **Turner, G.R.**, Cortese, F., and Protzner, A.B. (2018). The relation between Scrabble expertise and brain aging as measured with EEG brain signal variability. *Neurobiology of Aging*, 69, 249–260.
- [35] <sup>†</sup>Curtis, Ashley F., **Turner, Gary R.**, Park, Norman W., & Murtha, Susan, J.E. (2017). Improving visual spatial working memory in younger and older adults: effects of cross-modal cues. *Aging, Neuropsychology & Cognition*, 26, 24–43.
- [34] <sup>†</sup>Adnan A., Chen, A.J.W., Novakovic-Agopian, T., D'Esposito, M., & **Turner G.R.** (2017). Brain Changes Following Executive Control Training in Older Adults. *Neurorehabilitation & Neural Repair*, 31, 910–922. doi: 10.1177/1545968317728580.
- [33] Spreng, R.N., <sup>†</sup>Cassidy, B.N., <sup>†</sup>Darboh, B., DuPre, E., Lockrow, A.W., Setton, R. & **Turner, G.R.** (2017). Financial exploitation is associated with structural and functional brain differences in healthy older adults. *The Journals of Gerontology, Series A: Biological Sciences and Medical Sciences*, 72, 1365–1368.
- [32] Sharma, B., Tomaszczyk, J.C., Dawson, D., **Turner, G.R.**, Colella, B., and Green, R.E. (2017). Feasibility of online self-administered cognitive training in moderate-severe brain injury. *Disability Rehabilitation*, 39, 1380–1390.
- [31] <sup>†</sup>Gallen, C. L., **Turner, G.R.**, <sup>†</sup>Adnan, A. and D'Esposito. M. (2016). Reconfiguration of brain network architecture to support executive control in aging. *Neurobiology of Aging*, 44, 42-52.
- [30] <sup>†</sup>Dey, A. K., Stamenova, V., **Turner, G.R.**, Black, S.E., and Levine, B. (2016). Pathoconnectomics of cognitive impairment in small vessel disease: A systematic review. *Alzheimer's & Dementia*, 12, 831–845.
- [29] **Turner, G.R.** & Spreng, R.N. (2015). Prefrontal engagement and reduced default network suppression co-occur and are dynamically coupled in older adults: The default – executive coupling hypothesis of aging. *Journal of Cognitive Neuroscience*, 27, 2462–2476.

- [28] Spreng, R.N., Gerlach, K.D., **Turner, G.R.** & Schacter, D.L. (2015). Autobiographical planning and the brain: Activation and its modulation by qualitative features. *Journal of Cognitive Neuroscience*, 27, 2147–2157.
- [27] Soh, D.W., Skocic, J., Nash, K., Stevens, S., **Turner, G.R.**, Rovet, J. (2015). Self-regulation therapy increases frontal gray matter in children with fetal alcohol spectrum disorder: evaluation by voxel-based morphometry. *Frontiers in Human Neuroscience*. 9 (108).
- [26] Spreng, R.N., DuPre, E., <sup>†</sup>Selarka, D., <sup>†</sup>Garcia, J., Gojkovic, S., Mildner, J., Luh, W.-M. & **Turner, G.R.** (2014). Goal-congruent default network activity facilitates cognitive control. *Journal of Neuroscience*. 34, 14108–14111.
- [25] Tomaszczyk, J. C., Green, N. L., Frasca, D., Colella, B., **Turner, G.R.**, Christensen, B. K., & Green, R. E. (2014). Negative neuroplasticity in chronic traumatic brain injury and implications for neurorehabilitation. *Neuropsychology Review* 24, 409 –27.
- [24] Middleton, L., Lam, B., <sup>†</sup>Fahmi, H., Black, S.E., McIlroy, W., Stuss, D., Danells, C., Ween, J. & **Turner, G.R.** (2014). Prevalence of domain-specific cognitive impairment in sub-acute and chronic stroke. *Neurorehabilitation*, 34, 305–12
- [23] Persson, J., Spreng, R.N., **Turner, G.R.**, Herlitz, A., Morell, A., Stening, E., Wahlund, L.-O. Wikström, J., Söderlund, H. (2014). Sex differences in volume and structural covariance of the anterior and posterior hippocampus. *NeuroImage*, 99, 215–225.
- [22] Spreng, R.N. & **Turner, G.R.** (2013). Structural covariance of the default network in healthy and pathological aging. *Journal of Neuroscience*, 33, 15226–15234.
- [21] <sup>†</sup>Hunt, A.W., **Turner, G.R.**, Polatajko, H., Bottari, C., Dawson, D.R. (2013). Executive function, self-regulation and attribution in acquired brain injury: A scoping review. *Neuropsychological Rehabilitation*, 23, 914–932.
- [20] <sup>†</sup>Patel, R., Spreng, R.N. & **Turner, G.R.** (2013). Functional brain changes following cognitive and motor skills training: A quantitative meta-analysis. *Neurorehabilitation and Neural Repair*, 27, 187–199.
- [19] Spreng, R.N., Sepulcre, J., **Turner, G.R.**, Stevens, W.D., & Schacter, D.L. (2013). Intrinsic architecture underlying the relations among the default, dorsal attention, and frontoparietal control networks of the human brain. *Journal of Cognitive Neuroscience*, 25, 74–86.
- [18] **Turner, G.R.** & Spreng, R.N. (2012). Executive control and neurocognitive aging: Dissociable patterns of brain activity for working memory and inhibition. *Neurobiology of Aging*, 33, 826.e1–826.e13.
- [17] **Turner, G.R.**, McIntosh, A.R., Levine, B. (2012). Dissecting altered functional engagement in TBI and other patient groups through connectivity analysis: one goal, many paths (a response to Hillary). *Frontiers in Systems Neuroscience*. doi: 10.3389/ fnsys.2012.00010.
- [16] Novakovic-Agopian, T., Chen, A.J.W., Rome, S. Rossi, A., Abrams, G., D’Esposito, M., **Turner, G.R.** et al., (2012). Assessment of Sub-components of Executive Functioning in Ecologically Valid Settings: The Goal Processing Scale. *Journal of Head Trauma Rehabilitation*, 29, 136–146.



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- [14] Crete-Nishihata, M., Baecker, R.M., Massimi, M., Ptak, D., Campigotto, R., Kaufman, L.D., Brickman, A.M., **Turner, G.R.**, Steiner, J., and Black, S.E. (2012). Reconstructing the Past: Personal Memory Technologies Are Not Just Personal and Not Just for Memory. *Human-Computer Interaction*. 27, 92–123
- [13] Chen, A.-J.R., Nycum, T., Novakovic-Agopian, T., **Turner, G.R.**, D'Esposito, M. (2011). Training of goal-directed attention regulation enhances control over neural processing for individuals with brain injury. *Brain*, 134 (Pt. 5). 1541–1554.
- [12] <sup>†</sup>Koshimori, Y., **Turner, G.R.**, Mikulis, D., Crawley, A., & Green, R.E.A. (2010) Diffusion tensor imaging vs conventional MRI for single case diagnosis of traumatic brain injury in spinal cord injury patients. *Brain Injury*, 24, 458–459.
- [11] **Turner, G.R.**, McIntosh, A.R., Levine, B. (2011). Prefrontal compensatory engagement in TBI is due to altered functional engagement of existing networks and not functional reorganization. *Frontiers in Systems Neuroscience*, 5:9, doi: 10.3389/fnsys.2011.00009.
- [10] Levine, B., Schweizer, T.A., O'Connor, C., **Turner, G.R.**, Gillingham, S., Stuss, D.T., Manly, T., Robertson, I.H. (2011). Rehabilitation of executive functioning in patients with frontal lobe brain damage: A randomized control trial of Goal Management Training. *Frontiers in Human Neuroscience*, 5:9, doi: 10.3389/fnhum.2011.00009.
- [9] <sup>†</sup>Koshimori, Y., **Turner, G.R.** and Green, R.E.A. (2010). Research Digest: Mild-traumatic brain injury – a diagnostic challenge. *Neuropsychological Rehabilitation*, 20, 471–478.
- [8] Green, R.E.A. and **Turner, G.R.** (2010). Growing evidence for influence of meditation on brain and behaviour. *Neuropsychological Rehabilitation*, 20, 306–311.
- [7] Levine, B., Svoboda, E.M., **Turner, G.R.**, Mandic, M., & Mackey, A. (2009). Behavioral and functional neuroanatomical correlates of autobiographical memory in isolated retrograde amnesic patient M.L. *Neuropsychologia*, 47, 2188–2196.
- [6] **Turner, G.R.** & Levine, B. (2008). Augmented neural recruitment during executive control processing following diffuse axonal injury. *Neurology*, 71, 812–818.
- [5] **Turner, G.R.** & Green, R.E.A. (2008). Cognitive remediation in aging and ABI: A question of negative plasticity? *Neuropsychological Rehabilitation*, 18, 372–384.
- [4] Schweizer, T.A., Levine, B., Rewilak, D., O'Connor, C., **Turner, G.R.**, Alexander, M.P., Cusimano, M. Manly, T., Robertson, I., & Stuss, D.T. (2008). Rehabilitation of executive functioning after focal damage to the cerebellum. *Neurorehabilitation and Neural Repair*, 22, 72–77.
- [3] **Turner, G.R.** & Levine, B. (2006). fMRI of delayed response performance in healthy adults and the limits of cross-method convergence. *Neuroscience*, 139, 327–337.
- [2] Green, R.E.A., **Turner G.R.** & Thompson, W.F. (2004). Deficits in facial emotion perception in adults with recent traumatic brain injury, *Neuropsychologia*, 42, 133 –141.

- [1] Levine, B., **Turner, G.R.**, Tisserand, D.J., Graham, S.I., Hevenor, S.J. & McIntosh, A.R. (2004). The functional neuroanatomy of episodic and semantic autobiographical remembering: a prospective study. *Journal of Cognitive Neuroscience*, 16, 1633–1646

### Articles Under Peer Review

- <sup>†</sup>Girn, M., Bzdok, D., <sup>†</sup>Setton, R., <sup>†</sup>Mwilambwe-Tshilobo, L., **Turner, G.R.** & Spreng, R.N. Individual differences in default network-behavior relations reveal multifaceted patterns of associations across subsystems. *Journal of Cognitive Neuroscience*.

Stevens, W.D., Adler, S.A., <sup>†</sup>Mwilambwe-Tshilobo, L., Gorbet, D., Solomon-Harris, L.M., Wong-Kee-You, A.M.B., <sup>†</sup>Setton, R., **Turner, G.R.** & Spreng, R.N. Adults born via Caesarean section have visual attention deficits and aberrant functional connectivity of visual brain networks. *Current Biology*.

- <sup>†</sup>Wearn, A., Tardif, C.L., Leppert, I.R., <sup>†</sup>Baracchini, G., Villeneuve, S., **Turner, G.R.** & Spreng, R.N. *In vivo* histology of the hippocampus reveals microstructural trajectories of aging and Alzheimer's disease pathology. *Proceedings of the National Academy of Sciences USA*.

### Books

Spreng, R.N., & **Turner, G.R.** (under contract). *Aging and Human Development*. Princeton University Press.

### Chapters

- [8] Ebner, N. C., Pehlivanoglu, D., Polk, R., **Turner, G. R.**, & Spreng, R. N. (2022). Aging online: Rethinking adulthood and aging in an unsafe digital era. In Y. Hanock & S. Wood (Eds.), *A Fresh look at Fraud: Theoretical and Applied Approaches* (Behavioral Economics and Healthy Behaviors). Routledge Taylor Francis.
- [7] Spreng, R.N., Ebner, N.C., Levin, B.E. & **Turner, G.R.** (2021) Aging and financial exploitation risk. In Factor, R., Ed. *Aging and Money* (2nd Edition). New York, NY: Springer Press, pp. 55-74. [https://doi.org/10.1007/978-3-030-67565-3\\_5](https://doi.org/10.1007/978-3-030-67565-3_5).
- [6] Spreng, R.N., **Turner, G.R.** (2019). Structure and function of the aging brain. In Samanez-Larkin, G. (Ed.) *The Aging Brain*. Washington DC: American Psychological Association.
- [5] Spreng, R.N., <sup>†</sup>Shoemaker, L. & **Turner, G.R.** (2017). Executive functions and neurocognitive aging. In Goldberg, E, ed. *Executive functions in health and disease*. Academic Press: Elsevier, pp. 169–196.
- [4] **Turner, G.R.** and D'Esposito, M. (2014). Neurorehabilitation of executive functions. *Textbook of neural repair and rehabilitation, 2nd edition*. Selzer, M.E., Clark, S., Cohen, L., Kwakkel, G., Miller, K. (Eds). Cambridge University Press. Pp. 489–500.
- [3] **Turner, G.R.** and D'Esposito, M. (2010). Functional neuroimaging in aging. *Clinical Neurology of Aging, 3rd Edition*. Knoefel, J. and Albert, M.L. (Eds). Pp. 105–112. Oxford University Press.

- [2] Levine, B., **Turner, G.R.**, Stuss, D. T. (2008). Rehabilitation of frontal lobe disorders. In *Cognitive Neurorehabilitation: Evidence & Applications (2nd Edition)*. Stuss, D.T., Winocur, G., Robertson, I. H. (Eds.). pp. 464–486. Cambridge University Press.
- [1] **Turner, G.R.** and Levine, B. (2004). Disorders of executive functioning and self awareness. In *Cognitive and Behavioural Rehabilitation*, J. Ponsford (Ed.). Pp. 224–268. Guilford Publications.

## INVITED KEYNOTES, TALKS & LECTURES

**Turner, G.R.** (June, 2025). Financial vulnerability in the aging brain. Invited presentation to the Women's Equality and the Financial and Consumer Services Commission of New Brunswick (Virtual Event)

**Turner, G.R.** (March, 2025). Decision-making biases in older adulthood. Presentation to the International Society of Behavioral Neuroscience (Canmore, Alberta, Canada)

**Turner, G.R.** (September, 2024). Should I stay or should I go? Decision-making biases in older adulthood. Invited presentation to the Toronto Western Neuroimaging Rounds (Toronto, Canada)

**Turner, G.R.** (May, 2024). Executive functions and Goal Management Training. Invited presentation to the Springboard Neuropsychology Clinical Rounds (Toronto, Canada)

Spreng, R.N. & **Turner, G.R.** (February, 2024). Vulnerability to financial exploitation and the brain. Symposium discussant at the Life Care Planning Law Firms Association Annual Meeting (Las Vegas, U.S.A)

**Turner, G.R.** (April, 2023). Presentation of York University Centre for Aging Research and Education (YU-CARE) undergraduate education certificate program. Invited presentation to the York University Retirees Association (Virtual event)

**Turner, G.R.** (June, 2022). Investigating the impact of white matter lesions on the aging functional connectome. Presentation to the International Society of Behavioral Neuroscience (St. John's Newfoundland, Canada).

**Turner, G.R.** (November, 2020). Financial exploitation and aging: Surveillance to intervention. Invited Lecture: Aging in a modern world. Royal Canadian Institute of Science. (Virtual event)

**Turner, G.R.** (March, 2020). Financial scams and the aging brain. CBC Radio 1, Fresh Air.

**Turner, G.R.** Spreng, R.N., Levin, B., Ebner, N.C. (November, 2019). Financial Vulnerability & Exploitation in Aging: From Surveillance to Intervention. Stopping Financial Exploitation: Florida on the Forefront. Gainesville, Florida, USA.

Spreng, R.N., Adnan, A., & **Turner, G.R.** (June, 2019). The creative aging brain: Functional brain networks associated with divergent thinking in older and younger adults. International Society for Behavioural Neuroscience, Annual Meeting, Taormina, Italy.

**Turner G.R.** & Spreng, R.N. (June, 2019). The shifting architectures of cognition and brain function: A lifespan network neuroscience perspective. Organization for Human Brain Mapping, Annual Meeting, Rome

**Turner, G.R.** & Ebner, N.C. (June 2019). Deciphering social cues: Decision-making capacity in the context of financial exploitation risk. International Society for Behavioural Neuroscience Annual Meeting,

<sup>†</sup>Dimech, C., Anderson, J., Lockrow, A., Spreng, N. and **Turner, G.R.** (June, 2018). Sex differences in the impact of cardiorespiratory fitness on brain health in older adults. Invited symposium presentation. International Society for Behavioural Neuroscience annual meeting, Anchorage, Alaska.

**Turner, G.R.** (November, 2016). Rehabilitation neuroscience: A new frontier for assessment and intervention for cognitive dysfunction in aging and ABI. Invited seminar. Toronto Acquired Brain Injury Network, Annual Conference. Toronto, ON

**Turner, G.R.** (October, 2016). Web-based delivery of a cognitive training program. Canadian Gerontological Society Annual Meeting. Invited seminar. Montreal Quebec.

**Turner, G.R.** (June, 2015). Executive control in aging and brain disease: A new frontier for assessment and intervention. Keynote address: J.F. Walker Lecture in Speech Language Pathology, University of Toronto.

**Turner, G.R.** (2015). Executive functions: Breaking them down and building them up. Baycrest-Rotman Research Rounds. Toronto, ON.

**Turner, G.R.** & D'Esposito, M. (2014). A brain-based approach to executive function rehabilitation. Invited presentation to National Institutes of Health. Annual Meeting of Healthy Aging Research Grantees. Bethesda, MD.

**Turner, G.R.,** & Dawson, D.D. (2014). A brain-based approach to enhancing executive control in brain injury. Presentation to the University Health Network Annual Symposium on Rehabilitation Following Brain Injury. January 31, 2014.

Spreng, R.N. & **Turner, G.R.** (2013). Structural covariance of the default network in healthy and pathological aging. Invited Symposium Presentation. Society for Neuroscience, November, 2013. San Diego, CA.

**Turner, G.R.** (2013). Structural connectivity in the default-network as a novel biomarker for predicting transition from mild cognitive impairment to Alzheimer's Disease. International Alzheimer's Disease Meeting. Boston, MA. U.S.A., July, 2013.

**Turner, G.R.** (2013). Enhancing frontal functions in healthy aging and age-related diseases. VasCog: The International Society of Vascular Behavioural and Cognitive Disorders Meeting, Toronto, ON. June, 2013.

**Turner, G.R.** (2013). Negative neuroplastic change in chronic TBI: parallels with healthy aging. Canadian Association of Neuroscience Conference. May, 2013. Toronto, ON.

**Turner, G.R.** (2013). Panel member. Innovators in the Classroom. Teaching & Learning Innovation Celebration - York University.

Mills, J. & **Turner G.R.** (2013). Blended learning: Lessons from the field. Presentation at Teaching in Focus workshop, York University, Toronto.

**Turner, G.R.** (2012). Cognitive Neurorehabilitation: Does the brain matter? Keynote Address. Ontario Undergraduate Thesis Conference. York University, Toronto ON. (Cross-referenced with *Invited Presentations*)

**Turner, G.R.** (2012). Improving cognitive rehabilitation using functional brain imaging. University of Toronto, Behavioural Neurology Symposium. October, 2012. Toronto, ON.

**Turner, G.R.** (2012). A brain-based approach to executive function rehabilitation. Invited symposium, International Neuropsychological Society Meeting, June, 2012. Oslo, Norway.

**Turner, G.R.** (2012). Cognitive Neurorehabilitation: Does the brain matter? Keynote Address. Ontario Undergraduate Thesis Conference. York University, Toronto ON.

**Turner, G.R.** (2011). Cognitive rehabilitation, stroke and cerebrovascular disease. Keynote Address. Ontario Stroke Collaborative meeting, Toronto, ON.

**Turner, G.R.** (2011). Can fMRI data inform cognitive rehabilitation? Implications for healthy aging, age-related disease and brain injury. Toronto Western Hospital Neuroimaging Rounds. Toronto, ON.

**Turner, G.R.** (2010). Cognitive rehabilitation in stroke and cerebrovascular disease: a brain-based approach. Southeastern Ontario Stroke Network Symposium. Kingston, ON.

**Turner, G.R.**, Chen, A.J-W., D'Esposito, M. (2010). Dallas Aging and Cognition Conference (2010). Brain-based Approaches to enhance executive control in healthy aging. Conference sponsor: Center for Vital Longevity, University of Texas, Dallas.

## PRESENTATIONS AT MEETINGS AND SYMPOSIA

Mwilambwe-Tshilobo, L., Setton, R., Bzdok, D., **Turner, G.R.**, Spreng, R. N. (June, 2022). Age-related differences in brain network functional connectivity related to loneliness and empathy. OHBM Annual Meeting, Glasgow, Scotland.

Hughes, C., Setton, R., Mwilambe-Tshilobo, L., Baracchini, G., **Turner, G.R.**, Spreng, R.N. (June 2022). Precision mapping of the default network during self-generated thought. Organization for Human Brain Mapping, Glasgow, Scotland.

Baracchini, G., Mwilambwe-Tshilobo, L., Setton, R., Lockrow, A.W., **Turner, G.R.**, Spreng, R.N. (June, 2021). Altered inter-regional similarity in BOLD variability traces functional integration in aging. OHBM Annual Meeting (Virtual conference).

Girn, M., Bzdok, D., †Lockrow, A.W., †Setton, R., †Mwilambwe-Tshilobo, L., **Turner, G.R.**, Spreng, R.N. (June, 2021). Deep behavioral phenotyping reveals two multivariate axes of default network covariance. OHBM Annual Meeting (Virtual conference).

Setton, R., Mwilambwe-Tshilobo, L., Girn, M., Lockrow, A.W., †Baracchini, G., Lowe, A.J., †Cassidy, B.N., Li, J., Luh, W.-M., Bzdok, D., Leahy, R.M., Ge, T., Margulies, D.S., Mišić, B., Bernhardt, B.C., Stevens, W.D., De Brigard, F., Kundu, P., **Turner, G.R.** & Spreng, R.N. (June, 2021). Functional architecture of the aging brain. OHBM Annual Meeting (Virtual conference).

Baracchini, G., Mwilambwe-Tshilobo, L., Setton, R., Lockrow, A.W., **Turner, G.R.**, Spreng, R.N. (June, 2021). Altered inter-regional similarity in BOLD variability traces functional integration in aging. OHBM Annual Meeting (Virtual conference).

Girn, M., Bzdok, D., Lockrow, A.W., Setton, R., Mwilambwe-Tshilobo, L., **Turner, G.R.**, Spreng, R.N. (June, 2021). Deep behavioral phenotyping reveals two multivariate axes of default network covariance. OHBM Annual Meeting (Virtual conference).

Setton, R., Mwilambwe-Tshilobo, L., Girn, M., Lockrow, A.W., Baracchini, G., Lowe, A.J., †Cassidy, B.N., Li, J., Luh, W.-M., Bzdok, D., Leahy, R.M., Ge, T., Margulies, D.S., Mišić, B., Bernhardt, B.C., Stevens, W.D.,

De Brigard, F., Kundu, P., **Turner, G.R.** & Spreng, R.N. (June, 2021). Functional architecture of the aging brain. OHBM Annual Meeting (Virtual conference).

†Kantarovich, K., Mwilambwe-Tshilobo, L., Fernández-Cabello, S., Lockrow, A., **Turner, G.R.**, Spreng, R.N. (July, 2020). Investigating white matter lesion load, intrinsic functional connectivity, and cognition in aging. OHBM Annual Meeting (Virtual conference).

Baracchini, G., Mwilambwe-Tshilobo, L., Girn, M., Setton, R., Misic, B., **Turner, G.R.**, Spreng, R.N. (July, 2020). Functional Connectivity and Interregional BOLD Signal Variance across Large-scale Networks. OHBM Annual Meeting (Virtual conference).

†Setton, R., †Mwilambwe Tshilobo, M., †Baracchini, G., †Girn, M., †Lockrow, A., Li, J., Ge, T., Leahy, R., **Turner, G.R.**, Spreng, R.N. (July, 2020). ME-fMRI connectivity associations with behavior using group and individualized parcellation schemes. OHBM Annual Meeting (Virtual conference).

Girn, M., Lowe, A.J., Lockrow, A., Setton, R., Mwilambwe-Tshilobo, L., Margulies, D.S., Bernhardt, B., **Turner, G.R.**, Spreng, R.N. (October, 2019). Age-related differences in the principal gradient of macroscale cortical organization. Presentation at the Society for Neuroscience, Annual meeting, Chicago, CA. USA.

Girn, M., Lockrow, A., Setton, R., Laetitia Mwilambwe-Tshilobo, L., **Turner, G.R.**, Spreng, R.N. (June, 2019). Dynamic functional network connectivity in healthy older and younger adults. Organization for Human Brain Mapping, Annual Meeting, Rome, Italy.

Maillet, D., Beaty, R.E., †Adnan, A., Fox, K.C.R., **Turner, G.R.**, & Spreng, R.N. (June, 2019). Age-related differences in the neural correlates of self-generated thoughts at rest. Organization for Human Brain Mapping, Annual Meeting, Rome, Italy.

Laetitia Mwilambwe-Tshilobo, L., Lockrow, A., Setton, R., Fernández-Cabello, S., **Turner, G.R.**, Spreng, R.N. (May, 2019). Age-related differences in the neural correlates of loneliness and social isolation in young and older adults. Social Affective Neuroscience Society, Annual Meeting, Miami, FL, USA.

†Lam, J. **Turner, G.R.**, Spreng, R.N. (October, 2016). Dynamic default network engagement as a function of stimulus familiarity and task performance. Presentation at the Society for Neuroscience, Annual meeting, San Diego, CA. USA.

†Lemire-Rodger, S., Spreng, R.N., Stevens, W.D., **Turner, G.R.** (2015). The what, where and when of executive function: Dissociating cognitive control processes in the human brain. Invited Symposium Presentation. Society for Neuroscience, Annual meeting, Chicago, IL. USA.

†Adnan, A., **Turner, G.R.**, Chen, A.J.W., Novakovic-Agopian, T., D'Esposito, M. (2015). Attentional regulation training is associated with flexible engagement of frontal control and default brain networks in older adults. Poster Presentation. Society for Neuroscience, Annual meeting, Chicago, IL. USA.

†Shoemaker, L., Spreng, R.N., **Turner, G.R.** (2015). Executive functions and neurocognitive aging: Dissociable patterns of brain activity during task-switching. Baycrest Research Conference. Toronto, ON.

†Lemire-Rodger, S., Spreng, R.N., Stevens, W.D., **Turner, G.R.** (2014). Dissociating the Neural Correlates of Executive Control. Poster presentation at the Canadian Society for Brain, Behaviour and Cognitive Science Annual Meeting, Toronto, ON, CA. (Awarded the Donald O. Hebb best poster award).

<sup>†</sup>Adnan, A., Turner, G.R., Chen, A.J.W., Novakovic-Agopian, T., D'Esposito, M. (2014). Modulation of large-scale brain networks in older adults after executive control training. Cognitive Neuroscience Society Meeting, Boston, MA. U.S.A.

<sup>†</sup>Lemire-Rodger, S., Spreng, R.N., Selarka, D., & **Turner, G.R.** (April, 2014). Fractionating Executive Control in the Human Brain. Cognitive Neuroscience Society Annual Meeting, Boston, MA, USA.

Spreng, R.N., DuPre, E., <sup>†</sup>Selarka, D., Garcia, J., <sup>†</sup>Gojkovic, S., Mildner, J., Kurkela, K. & **Turner, G.R.** (April, 2014). Contextually relevant default network activity facilitates working memory performance. Cognitive Neuroscience Society Annual Meeting, Boston, MA, USA.

<sup>†</sup>Lemire-Rodger, S., Selarka, D., & **Turner, G.R.** (2013) Novel paradigm for investigating the dissociability of executive functions. Canadian Neuroscience Meeting, Toronto, ON.

<sup>†</sup>Fahmi, H., Middleton, L., Levine, B., Marziali, E., Black, S.E. & **Turner, G.R.** (2012). Cognitive training in cerebrovascular disease: A web-based approach. International Neuropsychological Society Meeting. Montreal Que.

<sup>†</sup>Fahmi, H., Middleton, L., Levine, B., Marziali, E. Black, S.E. & **Turner, G.R.** (2011). Cognitive Training and Behavior Modification in Secondary Stroke Prevention. Advances in Neurorehabilitation, Festival of International Conferences on Caregiver, Disability, Aging & Technology. Toronto, Ontario.

<sup>†</sup>Koshimori, Y., C., **Turner, G.R.**, Crawley, A., Bradbury, C., Mikulis, D., & Green, R.E.A. (2011) Diffusion tensor imaging for clinical diagnosis of mild traumatic brain injury. Conference proceedings Festival of international conferences on caregiving, disability, aging and technology (FICCDAT), Toronto, ON, pp 139.

<sup>†</sup>Koshimori, Y., **Turner, G.R.**, Crawley, A., Mikulis, M.J., Green, R.E.A. (2010). Diffusion tensor imaging versus conventional MRI for single case diagnosis of traumatic brain injury in spinal cord injury patients. 8<sup>th</sup> Annual Conference on Brain Injury. International Brain Injury Association. Washington, D.C., U.S.A.

T. Novakovic-Agopian, A. Chen, S. Rome, A. Rossi, R. Mckim, **G. Turner**, J. Garfinkle, C. Kennedy, and H. Castelli. (2010). Assessment of Executive Functioning with Goal Processing Scale - a Complex "Real-Life" Functional Performance Test. International Neuropsychological Society Meeting, February, 2010, Acapulco, Mexico.

**Turner, G.R.**, Nomura, E.M., Turken, A.U., Visser, R.M., Gratton, C. and D'Esposito, M. (2009). Structural alterations in resting state networks following focal brain lesions. Accepted Abstract. Society for Neuroscience annual meeting. Chicago, IL, U.S.A.

**Turner, G.R.**, Chen, A.J.W., D'Esposito, M. (2009). Dorsolateral prefrontal cortex lesions impair goal-directed modulation of representations within visual association cortex. Human Brain Mapping annual meeting, San Francisco. USA

**Turner, G.R.**, Chen, A.J.W., D'Esposito, M. (2008). Investigating the neural correlates of executive control training with fMRI: a rehabilitation neuroscience approach. Presented at the Canadian Stroke Network, Annual General Meeting, Winnipeg, Manitoba. September, 2009.

Souza, M.J., **Turner, G. R.**, Chen, A.J.W., Bunge, S.A (2008). Training executive functions using computer games: an exploratory study. Society for Neuroscience, Washington, D.C. USA.

**Turner, G.R.**, Song, S., Nycum, T., Chen, A.J.W., D'Esposito, M. (2008). Learning to ignore the irrelevant: behavioural and neural correlates of targeted practice on a novel selective attention task. Cognitive Neuroscience Society annual meeting, San Francisco, CA.

## **PUBLIC APPEARANCES & LECTURES**

**Turner, G.R.** (June, 2025). Financial vulnerability in the aging brain. Invited presentation to the Women's Equality and the Financial and Consumer Services Commission of New Brunswick (Virtual Event)

**Turner, G.R.** (May, 2024). Executive functions and Goal Management Training. Invited presentation to the Springboard Neuropsychology Clinical Rounds (Toronto, Canada)

Spreng, R.N. & **Turner, G.R.** (February, 2024). Vulnerability to financial exploitation and the brain. Symposium discussant at the Life Care Planning Law Firms Association Annual Meeting (Las Vegas, U.S.A)  
**Turner, G.R.** (November, 2020). Financial exploitation and aging: Surveillance to intervention. Invited Lecture: Aging in a modern world. Royal Canadian Institute of Science. (Virtual event)

**Turner, G.R.** (March, 2020). Financial scams and the aging brain. CBC Radio 1, Fresh Air.

**Turner, G.R.** Spreng, R.N., Levin, B., Ebner, N.C. (November, 2019). Financial Vulnerability & Exploitation in Aging: From Surveillance to Intervention. Stopping Financial Exploitation: Florida on the Forefront. Gainesville, Florida, USA.

**Turner, G.R.** (2013). Panel member. Innovators in the Classroom. Teaching & Learning Innovation Celebration - York University.

Mills, J. & **Turner G.R.** (2013). Blended learning: Lessons from the field. Presentation at Teaching in Focus workshop, York University, Toronto.

**Turner, G.R.** (2012). Cognitive Neurorehabilitation: Does the brain matter? Keynote Address. Ontario Undergraduate Thesis Conference. York University, Toronto ON. (Cross-referenced with *Invited Presentations*)

**Turner, G.R.** (2011). Cognitive rehabilitation, stroke and cerebrovascular disease. Keynote Address Ontario Stroke Collaborative meeting, Toronto, ON. (Cross-referenced with *Invited Presentations*)

## **PROFESSIONAL SERVICE**

### **Grant Review Panels**

- Member NSERC RTI evaluation panel (2021-ongoing)
- Member, College of Reviewers, CIHR Project Grant Program (2017 - ongoing).
- Standing Member, CIHR Grant Review Panel: Behavioural Sciences B (2011 – 2015)
- *Ad hoc* reviewer. NSERC Discovery Awards (2012- ongoing)

### **Peer Reviewer**

*Annals of Neurology • Cerebral Cortex • Cognitive, Affective, & Behavioral Neuroscience • Frontiers in Cognition • Frontiers in Human Neuroscience • Human Brain Mapping • International Journal of Epidemiology • International Journal of Psychophysics • Journal of Cognitive Neuroscience • Journal of Neurotrauma • Journal of the International Neuropsychological Society • Neurobiology of Aging • Neuropsychologia • Neuropsychology Reviews • Neuropsychological Rehabilitation • Psychiatry Research*



**Professional Associations**

- Member, Ontario College of Psychologists
- Member, Canadian Psychological Association
- Member, Organization for Human Brain Mapping
- Member, Cognitive Neuroscience Society
- Member, Society for Neuroscience

**MENTORSHIP****Graduate Students****Supervisor (current)**

2024 – present Kayla Williams  
 2023 – present Patrick Hewan  
 2019 – present Adina Levi

**Supervisor (graduated)**

2018 – 2025 Karin Kantarovich (PhD) *White matter microstructural integrity in asymptomatic older adults at risk for Alzheimer's disease.*  
 2016 – 2024 Bri Darboh (PhD). *Age-related differences in wise reasoning*  
 2021 – 2023 Lindsay Wyatt (MA). *Decision-making biases in aging and neuropsychological disorders.*  
 2016 – 2018 Christina Dimech (MA) *Sex differences in the relationship between cardiorespiratory fitness and brain function in older adulthood.*  
 2013 – 2018 Areeba Adnan (PhD) *The creative aging brain*  
 2013 – 2019 Sabrina Lemire Rodger (PhD) *Executive Control of Attention in the Human Brain: Neural Networks, Individual Differences, and Clinical Implications*