

# Gagan S. Wig, Ph.D.

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## ACADEMIC APPOINTMENTS

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- 2019- Associate Professor  
Center for Vital Longevity, School of Behavioral & Brain Sciences  
University of Texas at Dallas, Dallas, TX
- Department of Psychiatry (adjunct)  
University of Texas Southwestern Medical Center, Dallas, TX
- 2013-2019 Assistant Professor  
Center for Vital Longevity, School of Behavioral & Brain Sciences  
University of Texas at Dallas, Dallas, TX
- Department of Psychiatry (adjunct)  
University of Texas Southwestern Medical Center, Dallas, TX
- 2009-2012 Human Connectome Project Postdoctoral Fellow  
Washington University School of Medicine, St. Louis, MO  
Advisor: Steven E. Petersen, Ph.D.
- 2006-2009 Postdoctoral Fellow  
Harvard University, Cambridge, MA  
Massachusetts General Hospital, Charlestown, MA  
Advisor: Daniel L. Schacter, Ph.D.

## EDUCATION

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- 2001-2006 Ph.D. Cognitive Neuroscience  
Dartmouth College, Hanover, NH  
Doctoral Dissertation: Memory and the Resting Brain
- 1996-2001 B.Sc. Major in Biopsychology, Minor in Commerce  
University of British Columbia, Vancouver, BC

**RESEARCH FUNDING AWARDED**

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**Active**

- 2019-2024 National Institutes of Health (NIH), National Institutes of Aging (NIA)  
R01 AG063930  
Socioeconomic mediators of adult brain network resilience & vulnerability to cognitive decline  
Role: Principal Investigator  
Total costs: \$2,933,097
- 2017-2022 National Institutes of Health (NIH), National Institutes of Aging (NIA)  
RF1 AG006265  
Dallas Lifespan Brain Study—Wave 3: Neurodegeneration & resilience in cognition  
Role: Co-Investigator (PI: D. Park, Ph.D.)  
Total costs: \$5,900,000
- 2016-2024 James S. McDonnell Foundation  
Understanding Human Cognition Scholar Award  
A complex networks approach for understanding age-related cognitive decline  
Role: Principal Investigator  
Award amount: \$600,000

**Completed**

- 2018-2020 National Institutes of Health (NIH), National Institutes of Aging (NIA)  
R56 AG058253  
Impact of challenging engagement on cognition in older adults: A clinical trial  
Role: Co-Investigator (PI: D. Park, Ph.D.)  
Total costs: \$1,266,382
- 2017-2019 National Science Foundation (NSF)  
Early-concept Grants for Exploratory Research [EAGER]  
Modifying human cognition using targeted non-invasive stimulation of large-scale  
brain networks  
Role: Principal Investigator  
Total costs: \$149,940
- 2015-2016 Defense Advanced Research Projects Agency (DARPA)  
Data Stethoscope for the Brain Connectome  
Role: Principal Investigator (Co-PI: Roger Malina, Ph.D.)  
Total costs: \$270,148

## RESEARCH FELLOWSHIPS

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2007-2010	Canadian Institute of Health Research (CIHR), Institute of Aging Postdoctoral Fellowship
2005-2006	Dartmouth College Graduate Fellowship
2003-2005	Natural Sciences and Engineering Research Council of Canada (NSERC), Postgraduate Fellowship (PGS B)
2001-2003	Natural Sciences and Engineering Research Council of Canada (NSERC), Postgraduate Fellowship (PGS A)
2000-2001	Natural Sciences and Engineering Research Council of Canada (NSERC), Undergraduate Student Research Fellowship

## AWARDS, SCHOLARSHIPS, & HONORS

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2016	James S. McDonnell Foundation Understanding Human Cognition Scholar Award
2015	Canada's 100 Year Journey: Navigator Award
2014	Elected to the Memory Disorders Research Society
2006	Hannah Croasdale Award for Academic Excellence*, Dartmouth College *University-wide: "Awarded annually to the graduating PhD recipient who best exemplifies the qualities of a scholar."
2006	William M. Smith Promise in the Brain Sciences Award, Dartmouth College
2003	Summer Institute in Cog. Neurosci. Scholarship, Lake Tahoe, CA
2002	Summer Institute in Cog. Neurosci. Scholarship, Hanover, NH
1996-1998	University of British Columbia Outstanding Student Initiative Scholarship
1996	Province of British Columbia Provincial Scholarship
1996	Province of British Columbia Passport to Education Scholarship
1996	Westminister Savings Credit Union Post-Secondary Scholarship

## PEER-REVIEWED PUBLICATIONS

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1. Gratton, C., Coalson, R.C., Dworetzky, A., Adeyemo, B., Lauman, T.O., Wig, G.S., Kong, T.S., Gratton, G., Fabiani, M., Barch, D.M., Tranel, D., Miranda-Dominguez, O., Fair, D.A., Dosenbach, N.U.F., Snyder, A.Z., Perlmuter, J.S., Petersen, S.E., Campbell, M.C. (2020). Removal of high frequency contamination from motion estimates in single-band fMRI saves data without biasing functional connectivity. *Neuroimage*. 217: 116866.
2. Hou, X., Liu, P., Gu, H., Chan, M.Y., Li, Y., Peng, S., Wig, G.S., Yang, Y., Park, D.C., Lu, H. (2019). Estimation of brain functional connectivity from hypercapnia BOLD MRI data. *Neuroimage*. 186: 455-463.
3. Han, L., Savalia, N.K., Chan, M.Y Agres, P.F., Nair, A.S., Wig, G.S. (2018). Functional parcellation of the cerebral cortex across the human adult lifespan. *Cerebral Cortex*. 28(12): 4403-4423.
4. Farrell, M.E., Chen, X., Rundle, M.M., Chan, M.Y., Wig, G.S., Park, D.C. (2018). Early detection of longitudinal amyloid-related cognitive decline in initially amyloid-negative adults. *Neurology*. 91(19): e1809-e1821.

5. Chan, M.Y., Na, J., Agres, P.F., Savalia, N.K., Park, D.C., Wig, G.S. (2018). Socioeconomic status moderates age-related differences in the brain's functional network organization and anatomy across the adult lifespan. Proceedings of the National Academy of Sciences USA. 115(22): E5144-E5153.
6. Wig, G.S. (2017). Segregated systems of human brain networks. Trends in Cognitive Sciences. 21(12): 981-996.\*  
\*Trends in Cognitive Sciences—Editor's selected review for 2017  
(<http://crosstalk.cell.com/blog/best-reviews-we-published-in-2017-part-4>)
7. Chan, M.Y., Alhazmi, F., Park, D.C., Savalia, N.K., Wig, G.S. (2017). Resting-state network topology differentiates task signals across the adult lifespan. The Journal of Neuroscience. 37(10): 2734-2745.
8. Miller, K.J., Hermes, D., Pestilli, F., Wig, G.S., Ojemann, J.G. (2017). Face percept formation in human ventral temporal cortex. Journal of Neurophysiology. 118(5): 2614-2627.
9. Farrell, M.E., Kennedy, K.M., Rodrigue, K.M., Wig, G.S., Bischof, G.N., Rieck, J.R., Chen, X., Festini, S.B., Devous, M.D., Park, D.C. (2017). Association of longitudinal cognitive decline with amyloid burden in middle-aged and older adults: Evidence for a dose-response relationship. JAMA Neurology. 74(7): 830-838.
10. Savalia, N.K., Agres, P.F., Chan, M.Y., Feczko, E.J., Kennedy, K.M., Wig, G.S. (2017). Motion related artifacts in structural brain images revealed with independent estimates of in-scanner head motion. Human Brain Mapping. 38(1): 472-492.
11. Chan, M.Y., Park, D.C., Savalia, N.K., Petersen, S.E., Wig, G.S. (2014). Decreased segregation of brain systems across the healthy adult lifespan. Proceedings of the National Academy of Sciences USA. 111(46): E4997-E5006.\*  
\*Faculty of 1000 article of interest
12. Wig, G.S.<sup>1</sup>, Laumann, T.O.<sup>1</sup>, Petersen, S.E. (2014). An approach for parcellating human cortical areas using resting-state correlations. Neuroimage. 93: 276-291.\*  
<sup>1</sup>Equal contribution  
\*Commentary by: Buckner, R.L. & Yeo, B.T. (2014). Borders, map clusters, and supra-areal organization in visual cortex. Neuroimage. 93: 292-297.
13. Wig, G.S., Laumann, T.O., Cohen, A., Power, J.D., Nelson, S.M., Glasser, M.F., Miezin, F.S., Snyder, A.Z., Schlaggar, B.L., Petersen, S.E. (2014). Parcellating an individual subject's cortical and subcortical brain structures using snowball sampling of resting-state correlations. Cerebral Cortex, 24(8): 2036-2054.
14. Nelson, S.M., McDermott, K., Wig, G.S., Schlaggar, B.L., Petersen, S.E. (2013). The critical roles of localization and physiology for understanding parietal contributions to memory retrieval. The Neuroscientist. 19(6): 578-591.
15. Szpuner, K.K., St. Jacques, P.L., Robbins, C.A., Wig, G.S., Schacter, D.L. (2013). Repetition-related reductions in neural activity reveal component processes of mental simulation. Social Cognitive and Affective Neuroscience. 9(5): 712-722.
16. Somerville, L.H., Wagner, D.D., Wig, G.S., Moran, J.M., Whalen, P.J., Kelley, W.M. (2013). Interactions between tonic and phasic neural signals support the generation and regulation of anxious emotion. Cerebral Cortex. 23(1): 49-60.

17. Stevens, W.D., Kahn, I., Wig, G.S., & Schacter, D.L. (2012). Hemispheric asymmetry of form-abstract visual scene processing in the human brain: Evidence from repetition priming and intrinsic activity. Cerebral Cortex. 22(8): 1935-1949.
18. Power, J.D., Cohen, A.L., Nelson, S.M., Wig, G.S., Barnes, K.A., Church, J., Vogel, A., Laumann, T.O., Miezin, F.M., Schlaggar, B.L., Petersen, S.E. (2011). Functional network organization of the human brain. Neuron. 72(4): 665-678.
19. Wig, G.S., Schlaggar, B.L., Petersen, S.E. (2011). Concepts and principles in the analysis of brain networks. Annals of the New York Academy of Sciences. 1224(1): 126-146.
20. Dosenbach, N.U.F., Nardos, B., Cohen, A.L., Fair, D.A., Power, J.D., Church, J.A., Nelson, S.M., Wig, G.S., Vogel, A.C., Lesov-Schlaggar, C.N., Banes, K.A., Dubis, J.W., Feczko, E., Coalson, R.S., Pruett, J.R., Barch, D.M., Petersen, S.E., Schlaggar, B.L. (2010). Prediction of individual brain maturity using fMRI. Science. 329(5997): 1359-1361.
21. Nelson, S.M., Cohen, A.L., Power, J.D., Wig, G.S., Miezin, F.M., Wheeler, M.E., Velanova, K., Donaldson, D.I., Phillips, J.S., Schlaggar, B.L., Petersen, S.E. (2010). A parcellation scheme for human left lateral parietal cortex. Neuron. 67(1): 156-170.
22. Wig, G.S., Buckner, R.L., & Schacter, D.L. (2009). Repetition priming influences distinct brain systems: Evidence from task-evoked data and resting-state correlations. Journal of Neurophysiology. 101(5): 2632-2648.
23. Wig, G.S., Grafton, S.T., Demos, K.E., Wolford, G., Petersen, S.E., & Kelley, W.M. (2008). Medial temporal lobe BOLD activity at rest predicts individual differences in memory ability in healthy young adults. Proceedings of the National Academy of Sciences USA. 105(47): 18555-18560.
24. Colvin, M, Wig, G.S., Kelley, W.M., Grafton, S.T., & Gazzaniga, M.S. (2008). Structural organization of the corpus callosum predicts the extent and impact of cortical activity in the nondominant hemisphere. The Journal of Neuroscience. 28(11): 2912-2918.
25. Holmes, M.D., Brown, M., Tucker, D.M., Saneto, R.P., Miller, K.J., Wig, G.S., & Ojemann, J.G. (2008). Confirmation of dense array EEG localization of neocortical seizure onset and propagation. Pediatric Neurosurgery. 44(6): 474-479.
26. Schacter, D.L., Wig, G.S., & Stevens, W.D. (2007). Reductions in cortical activity during priming. Current Opinion in Neurobiology. 17: 171-176.
27. Somerville, L.H., Wig, G.S., Whalen, P.J., & Kelley, W.M. (2006). Dissociable roles for the hippocampus and amygdala in the representation of socially relevant contextual knowledge. Journal of Cognitive Neuroscience. 18(8): 1253-1265.
28. Wig, G.S., Grafton, S.T., Demos, K.E., & Kelley, W.M. (2005). A causal role for neural activity reductions during repetition priming. Nature Neuroscience. 8(9): 1228-1233. \*
  - \*Commentary by: Martin, A. & Gotts, S.J. (2005). Making the causal link: frontal cortex activity and repetition priming. Nature Neuroscience, 8(9): 1134-1135.
  - \*Faculty of 1000 article of interest

29. Barnes, S.J., Hua, J.M., Pinel, J.P.J, Takahashi, A, & Wig, G.S. (2005). Conditioned effects of kindling three different sites in the hippocampal complex of the rat. Behavioral Neuroscience. 119(6): 1572-1579.
30. Wig, G.S., Miller, M.B., Kingstone, A., & Kelley, W.M. (2004). Separable routes to human memory formation: Dissociating task and material contributions in the frontal cortex. Journal of Cognitive Neuroscience. 16(1): 139-48.
31. Moran, J.M., Wig, G.S., Adams, R., Janata, P., & Kelley, W.M. (2004). The neural funny bone: Dissociating humor comprehension from mirth. Neuroimage. 21(3): 1055-60.
32. Wolford, G.L., Newman, S.E., Miller, M.B., & Wig, G.S. (2004). Searching for patterns in random sequences. Canadian Journal of Experimental Psychology. 58(4): 221-8.
33. Barnes, S.J., Pinel, J.P.J., Wig, G.S., Stuetgen, M.C., & Hölzel, C.H. (2003) Stimulation site determines the conditioned effects of kindling in rats: anterior neocortex versus amygdala. European Journal of Neuroscience. 17(8): 1671-1679.
34. Wig, G. S., Barnes, S. J., & Pinel, J. P. J. (2002). Conditioning of a flavor aversion by amygdala kindling in rats. Behavioral Neuroscience. 116(2): 347-50.
35. Barnes, S. J., Pinel, J. P. J., Francis, L. H., & Wig, G. S. (2001). Conditioning of ictal and interictal behaviors in rats by amygdala kindling: Context as the conditional stimulus. Behavioral Neuroscience. 115(5): 1065-72.

#### **BOOK CHAPTERS, COMMENTARIES, VIDEOS, AND OTHER SCHOLARLY WORK**

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1. Wig, G.S. (2019). "Forum." Issues in Science and Technology. 35(2). \*  
\*Invited commentary on: Fitzpatrick, S.M. (2018). Asking the right questions in Alzheimer's research. Issues in Science and Technology. 35(1).
2. Wig, G.S. (2015). Using patterns of resting-state correlations to parcellate the brain into areas. Essentials of Cognitive Neuroscience. (B. Postle Author). Hoboken: 2015, Wiley-Blackwell. Web Video.
3. Wig, G.S. (2012). Repetition suppression and repetition priming are processing outcomes. Cognitive Neuroscience. 3(3-4): 247-248. \*  
\*Invited commentary on: Gotts, S., Carson, C., & Martin, A. (2012). Repetition priming and repetition suppression: A case for enhanced efficiency through neural synchronization. Cognitive Neuroscience. 3: 227-259.
4. Stevens, W.D., Wig, G.S., & Schacter, D.L. (2008). Implicit memory and priming. Concise Learning and Memory: The Editor's Selection. (J.Byrne Editor). Oxford: 2008, Elsevier.
5. Stevens, W.D., Wig, G.S., & Schacter, D.L. (2008). Implicit memory and priming. In H.L. Roediger, III (Ed.), Cognitive Psychology of Memory. Vol. [2] of Learning and Memory: A Comprehensive Reference, 4 vols. (J.Byrne Editor). Pp. 623-644. Oxford: 2008, Elsevier.
6. Wig, G.S. (2006). Memory and the Resting Brain. Ph.D. Thesis – Dartmouth College. Department of Psychological and Brain Sciences. Hanover, NH.

## SCIENTIFIC TALKS

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- 2022  
Dallas Aging and Cognition Conference, Dallas, TX (upcoming)
- 2021  
Resting-State Brain Connectivity Biennial Conference, Dallas, TX (upcoming)  
Nathan Kline Institute, Center for Biomedical Imaging and Neuromodulation Science Series, Virtual (upcoming)  
Montreal Neurological Institute, Feindel Brain and Mind Lecture Series, Virtual (upcoming)
- 2020  
Ludwig Maximilian University of Munich, Institute for Stroke and Dementia Research Seminar Series, Virtual  
Rice University, Department of Psychology Cognitive Seminar, Virtual  
Washington University School of Medicine: Knight Alzheimer Research Imaging Group Seminar, Virtual  
University of Texas Rio Grande Valley School of Medicine: Neuroscience Research Seminar Series, Virtual  
Organization for Human Brain Mapping Annual Conference: Lifespan Network Neuroscience Symposium, Montreal, QC  
(*cancelled due to COVID-19 pandemic*)  
Washington University School of Medicine: Festschrift for Dr. Steven E. Petersen, St. Louis, MO (*cancelled due to COVID-19 pandemic*)  
University of Texas at Dallas: Center for Vital Longevity Science Symposium, Dallas, TX
- 2019  
Sapien Labs: Virtual Symposium—Inter- and intra-person variability in the human brain, Virtual  
The National Academies of Sciences, Engineering, and Medicine: Workshop on Brain Health Throughout the Lifespan, Washington, DC  
Karolinska Institute: Aging Research Center International Forum, Stockholm, Sweden  
Indiana University: How systems learn, change and self-organize: Insights from network science workshop, Bloomington, IN
- 2018  
Univ. of Texas at Dallas: Center for Vital Longevity Colloquium, Dallas, TX  
Memory Disorders Research Society Annual Meeting, Toronto, ON  
Santa Fe Institute: Complex Time: Adaptation, Aging, & Arrow of Time Meeting, Santa Fe, NM  
James S. McDonnell Foundation Scholars Meeting, Oxford, UK  
Center for Brain Health: Reprogramming the Brain to Health Symposium, Dallas, TX  
Wayne State University: Institute of Gerontology Seminar Series, Detroit, MI  
UT Southwestern/UT Dallas Symposium on Neuroimaging, Dallas, TX
- 2017  
American College of Neuropsychopharmacology Annual Meeting: Symposium on Biomarkers of Major Depressive Disorder, Palm Springs, CA  
Washington University School of Medicine: NIAC seminar series, St. Louis, MO  
University of Texas Southwestern Medical School: Brain Circuits Lecture, Dallas, TX  
Dallas Aging and Cognition Conference, Dallas, TX

2016

University of Texas Southwestern Medical School: Neurotechnology Seminar, Dallas, TX  
University of British Columbia: Department of Psychology, Vancouver, BC  
9e2 (9 evenings 2), Seattle, WA  
Memory Disorders Research Society Annual Meeting, Princeton, NJ  
Ericsson, North American Headquarters – Neuroscience@Work Seminar, Plano, TX  
Dallas-Austin Area Memory Meeting, Dallas, TX  
DARPA Rhythms of the Brain Meeting, New York, NY

2015

University of Texas at Austin: Neuroscience Colloquium, Austin, TX  
University of Texas at Dallas: BBS Brain Matters Public Talk, Dallas, TX  
Memory Disorders Research Society Annual Meeting, Cambridge, UK  
ATX Laser, Austin, TX  
Next generation network neuroscience conference, Toronto, ON  
Highland Park Presbyterian Church, Dallas, TX  
Dallas Aging and Cognition Conference, Dallas, TX

2014

University of Texas at Dallas: Callier Center for Communication Disorders, Dallas, TX  
University of Texas at Dallas: Neuroscience Brown Bag, Dallas, TX  
University of Texas at Dallas: CVL Directors Research Circle Symposium, Dallas, TX  
University of Texas at Dallas: Center for Brain Health Science Colloquium, Dallas, TX

2013

University of Texas Southwestern Medical School, Dallas, TX  
Dallas Aging and Cognition Conference, Dallas, TX

2012

Dartmouth College, fMRI Brownbag, Hanover, NH

2011

Washington University School of Medicine: Knight ADRC Seminar Series, St. Louis, MO  
University of Washington Medical School: IBIC Colloquium, Seattle, WA  
University of Texas at Dallas: Center for Vital Longevity Colloquium, Dallas, TX  
Oregon Health Sciences University, Portland, OR  
Human Connectome Project: HCP Science Meetings, St. Louis, MO  
Rutgers University: Department of Psychology, Newark, NJ  
University of Texas at Dallas: School of Behav. & Brain Sciences, Dallas, TX

2010

Rotman Research Institute, Toronto, ON  
Washington University: Behavior, Brain & Cognition Colloquium. St. Louis, MO

2008

Dartmouth College: Cognitive Brown-Bag Talk Series. Hanover, NH  
Harvard University: Cognition, Brain, & Behavior Talk Series. Cambridge, MA



2006

Massachusetts General Hospital: Martinoscan Talk Series. Charlestown, MA

2005

University of British Columbia: Cognitive-group meeting. Vancouver, BC

2004

Harvard University: Social Affective Neuroscience Brown-Bag. Cambridge, MA

2003

Kings College: 5<sup>th</sup> Annual fMRI Experience Conference. London, England

### CONFERENCE ABSTRACTS

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1. Chan, M.Y., Carreno, C.A., Zhang, Z., Rodriguez, R.M., LaRose, M., Hassenstab, J., Wig, G.S. (2020). Lower education is accompanied by greater longitudinal brain network decline in older adults. Organization for Human Brain Mapping Annual Conference, Montreal, QC.
2. Zheng, A., Marek, M., Laumann, T.O., Gordon, E.M., Gilmore, A., Nelson, S.M., Wig, G.S., Shimony, J., Alexopoulos, D., Ortega, M., Greene, D.J., Dosenbach, N.U.F. (2019). Functional subdivisions of the hippocampus defined in individuals. Annual Flux Congress, New York, NY.
3. Zheng, A., Marek, M., Laumann, T.O., Gordon, E.M., Gilmore, A., Nelson, S.M., Wig, G.S., Shimony, J., Alexopoulos, D., Ortega, M., Greene, D.J., Dosenbach, N.U.F. (2019). Novel functional subdivisions of the human hippocampus at a subject-specific level. Organization for Human Brain Mapping Annual Conference, Rome, IT.
4. Han, L., Chan, M.Y., Agres, P.F., Wig, G.S. (2019). Assessment of resting-state brain network reliability over multiple measurements: Implications for longitudinal observations. Dallas aging and cognition conference, Dallas, TX.
5. Agres, P.F., Chan, M.Y., Han, L., Savalia, N.K., Wig, G.S. (2018). Organized patterns of cortical thinning observed across the healthy adult lifespan. Cognitive Neuroscience Society Annual Meeting, Boston, MA.
6. Chan, M.Y., Na, J., Agres, P.F., Savalia, N.K., Park, D.C., Wig, G.S. (2018). Socioeconomic status moderates age-related differences in brain anatomy and functional network organization across the adult lifespan. Cognitive Neuroscience Society Annual Meeting, Boston, MA.
7. Farrell, M.E., Chen, X., Rundle, M.M., Chan, M.Y., Wig, G.S., Park, D.C. (2018). Early Detection of Longitudinal Amyloid-Related Cognitive Decline in Middle-Aged and Initially Amyloid-Negative Adults. Human Amyloid Imaging. Miami Beach, FL.
8. Chan, M.Y., Savalia, N.K., Filbey, F., Wig, G.S. (2017). Differences in age-related desegregation of sensory systems between long-term marijuana users and controls. Society for Neuroscience 47<sup>th</sup> annual Meeting, Washington, DC: Society for Neuroscience. Online.
9. Han, L., Savalia, N.K., Chan, M.Y., Agres, P.F., Wig, G.S. (2017). Functional parcellation of the cerebral cortex across the healthy adult lifespan using resting-state functional connectivity. Dallas aging and cognition conference, Dallas, TX

10. Alhazmi, F., Chan, M.Y., Savalia, N.K., Wig, G.S. (2017). Age-related differences in the organization of large-scale functional brain networks during successful memory formation. Dallas aging and cognition conference, Dallas, TX.
11. Chan, M.Y., Alhazmi, F., Savalia, N.K., Park, D.C., Agres, P.F., Wig, G.S. (2017). Age associated differences in resting-state network topology predict differences in task-evoked activity. Dallas aging and cognition conference, Dallas, TX.
12. Farrell, M.E., Kennedy, K.M., Rodrigue, K.M., Wig, G.S., Bischof, G.N., Rieck, J.R., Chen, X., Festini, S.B., Park, D.C. (2017). Baseline amyloid burden predicts cognitive decline four years later in healthy adults: The value of a dose-response analysis. Human Amyloid Imaging. Miami Beach, FL.
13. Cooper, C.M., Savalia, N.K., Agres, P.F., Chan, M.Y., Han, L., Fava, M., Kurian, B., McGrath, P., Parsey, R., Weissman, M., Wig, G.S. Trivedi, M.H. (2016). Identifying clinically relevant subgroups in major depressive disorder using resting-state functional connectivity: results from the EMBARC study. American college of neuropsychopharmacology annual conference. Hollywood, FL.
14. Savalia, N.K., Cooper, C.M., Agres, P.F., Chan, M.Y., Han, L., Fava, M., Kurian, B., McGrath, P., Parsey, R., Weissman, M., Trivedi, M.H., Wig, G.S. (2016). Resting-state functional connectivity classifies patients with Major Depressive Disorder into clinically distinct sub-groups. Society for Neuroscience 46<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
15. Han, L., Savalia, N.K., Chan, M.Y. Agres, P.F., Wig, G.S. (2016). Functional parcellation of the cerebral cortex across the healthy adult lifespan using resting-state functional connectivity. Society for Neuroscience 46<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
16. Wig, G.S., Alhazmi, F., Chan, M.Y., Savalia, N.K. (2016). Age-related differences in the organization of large-scale functional brain networks during successful memory formation. Society for Neuroscience 46<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
17. Chan, M.Y., Alhazmi, F., Savalia, N.K., Park, D.C., Agres, P.F., Wig, G.S. (2016). Age associated differences in resting-state network topology predict differences in task-evoked activity. Society for Neuroscience 46<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
18. Farrell, M.E., Kennedy, K.M., Rodrigue, K.M., Wig, G.S., Bischof, G.N., Rieck, J.R., Chen, X., Festini, S.B., Park, D.C. (2016). Differentiating preclinical Alzheimer's disease from normal aging: The effects of age and amyloid on cognitive decline over 3.5 years. Alzheimer's Association International Conference, Toronto, ON.
19. Blanton, A., Ayloo, S., Chan, M.Y., Gresham-Lancaster, S.D., Malina, R., Perkis, T., Savalia, N., Schich, M., Srivastav, A., Wig, G.S. (2015). Connectome data dramatization: The human brain as visual music. Understanding Visual Music, Brasilia, Brazil.
20. Savalia, N.K., Agres, P.F., Chan, M.Y., Kennedy, K.M., Park, D.C., Wig, G.S. (2015). Motion related noise in structural brain images may be revealed with independent estimates of in-scanner head motion. Society for Neuroscience 45<sup>th</sup> annual Meeting, Chicago, IL: Society for Neuroscience. Online.

21. Chan, M.Y., Alhazmi, F., Savalia, N.K., Park, D.C., Wig, G.S. (2015). Evidence that decreased system segregation observed across the healthy adult lifespan does not result in differences in resting-state defined system topology. Society for Neuroscience 45<sup>th</sup> annual Meeting, Chicago, IL: Society for Neuroscience. Online.
22. Chan, M.Y., Park, D.C., Savalia, N.K., Petersen, S.E., Wig, G.S. (2015). Decreased segregation of brain systems across the healthy adult lifespan. Dallas Aging & Cognition Conference, Dallas, TX.
23. Chan, M.Y., Park, D.C., Savalia, N.K., Petersen, S.E., Wig, G.S. (2014). Decreased segregation of brain systems across the healthy adult lifespan. Society for Neuroscience 44<sup>th</sup> annual Meeting, Washington, DC: Society for Neuroscience. Online.
24. Laumann, T.O., Wig, G.S., Cohen, A.L., Petersen, S.E. (2013). Parcellation of human cortical areas using resting-state correlations. Organization for Human Brain Mapping, Seattle, USA.
25. Wig, G.S., Snyder, A.Z., Miezin, F.S., Hebrank, A.C., Kennedy, K.M., Rodrigue, K.M., Park, D.C., Petersen, S.E. (2012). Brain parcellation using fc-Snowballing across the healthy adult lifespan reveals a subtle difference in area localization in advanced age. Society for Neuroscience 42<sup>nd</sup> annual Meeting, New Orleans, LA: Society for Neuroscience. Online.
26. Wig, G.S., Laumann, T.O., Power, J.D., Cohen, A., Nelson, S.M., Miezin, F.S., Schlaggar, B.L., Petersen, S.E. (2012). Parcellating the brain with resting-state fMRI. Dartmouth Computational Neuroscience Workshop. Hanover, NH.
27. Wig, G.S., Laumann, T.O., Power, J.D., Cohen, A., Nelson, S.M., Miezin, F.S., Schlaggar, B.L., Petersen, S.E. (2011). Building a brain network using snowball sampling of resting-state fMRI. Society for Neuroscience 41<sup>st</sup> annual Meeting, Washington, DC: Society for Neuroscience. Online.
28. Laumann, T.O., Power, J.D., Wig, G.S., Schlaggar, B.L., Petersen, S.E. (2011). Temporal dynamics of resting state functional connectivity MRI respect sub-network structure. Society for Neuroscience 41<sup>st</sup> annual Meeting, Washington, DC: Society for Neuroscience. Online.
29. Spzunar, K., Wig, G.S., St. Jacques, P., Robbins, C., & Schacter, D.L. (2011). Identifying the component processes of mental simulation: Evidence from repetition-related decreases in the BOLD response. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
30. Wig, G.S., Miezin, F.M., Power, J.D., Cohen, A.L., Gilmore, A.W., Nelson, S.M., Stevens, W.D., Snyder, A.Z., Petersen, S.E., & Schacter, D.L. (2011). Graph theory reveals changes in network structure associated with healthy aging. Dallas aging and cognition conference, Dallas, TX.
31. Power, J.D., Cohen, A.L., Nelson, S.M., Wig, G.S., Miezin, F.M., Vogel, A., Church, J., Barnes, K.A., Schlaggar, B.L., Petersen, S.E. (2010). The network architecture of functionally defined regions spanning the brain reorganizes from a predominantly local architecture in children to a distributed, functional architecture in adults. Society for Neuroscience 40<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
32. Pruett JR, Jr., Feczko E, Hoertel S, McVey K, Power J, Wig GS, Miezin FM, Constantino JN, Schlaggar BL, and Petersen S. (2010) A network-based approach to brain functional connectivity in simplex autism. American Academy of Child and Adolescent Psychiatry 57th Annual Meeting, New York, NY.

33. Wig, G.S., Gilmore, A.W., Schacter, D.L. (2010). Repeated performance of a simulation task results in BOLD reductions within default network regions. Organization for Human Brain Mapping, Barcelona, Spain.
34. Gerlach, K.D., Wig, G.S., Spreng, R.N., Gilmore, A.W., Schacter, D.L. (2010). Neural activity associated with goal-directed simulation of future events. Organization for Human Brain Mapping, Barcelona, Spain.
35. Power, J.D., Cohen, A.L., Nelson, S.M., Wig, G.S., Miezin, F.M., Vogel, A., Church, J., Barnes, K.A., Schlaggar, B.L., Petersen, S.E. (2010). The network architecture of functionally defined regions spanning the brain reorganizes from a predominantly local architecture in children to a distributed, functional architecture in adults. Cognitive Neuroscience Society Annual Meeting, Montreal, QC.
36. Wig, G.S., Power, J.D., Cohen, A.L., Gilmore, A.W., Nelson, S.M., Stevens, W.D., Miezin, F.M., Snyder, A.Z., Schacter, D.L., & Petersen, S.E. (2009). Advanced aging is associated with a reorganization of functional brain networks. Society for Neuroscience 39<sup>th</sup> annual Meeting, Chicago, IL: Society for Neuroscience. Online.
37. Petersen, S.E., Power, J.D., Cohen, A.L., Nelson, S.M., Wig, G.S., Miezin, F.M., Church, J., Vogel, A., Schlaggar, B.L. (2009). Functionally defined regions across the brain are organized into distinct community structures. Society for Neuroscience 39<sup>th</sup> annual Meeting, Chicago, IL: Society for Neuroscience. Online.
38. Nelson, S.M., Cohen, A.L., Power, J.D., Wig, G.S., Miezin, F.M., Wheeler, M.E., Velanova, K., Donaldson, D.I., Schlaggar, B.L., Petersen, S.E. (2009). Dissociating memory-retrieval related processes in networks defined from separable putative areas in human left lateral parietal cortex. Society for Neuroscience 39<sup>th</sup> annual Meeting, Chicago, IL: Society for Neuroscience. Online.
39. Wig, G.S., Buckner, R.L., & Schacter, D.L. (2008). Sustained components of task performance are sensitive to practice and healthy-aging. Society for Neuroscience 38<sup>th</sup> annual Meeting, Washington, DC: Society for Neuroscience. Online.
40. Wig, G.S., Schacter, D.L., & Buckner, R.L. (2008). Spontaneous correlations reveal distinct networks mediating perceptual and conceptual processing. Cognitive Neuroscience of Visual Knowledge Conference. Medford, MA.
41. Wig, G.S., Schacter, D.L., & Buckner, R.L. (2008). Evidence for distinct networks related to perceptual and semantic processing revealed by spontaneous fMRI correlation patterns. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
42. Wig, G.S., Buckner, R.L., & Schacter, D.L. (2007). Multiple components subserve priming in healthy young adults. Society for Neuroscience 37<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
43. Stevens, W.D., Schacter, D.L., Kahn, I., Wig, G.S., Buckner, R.L. (2007). Specificity of repetition priming: an investigation of category- and item-specificity for morphed faces and similar scenes using high-resolution fMRI. Society for Neuroscience 37<sup>th</sup> annual Meeting, San Diego, CA: Society for Neuroscience. Online.
44. Wig, G.S., Grafton, S.T., Demos, K.E., Kelley, W.M. (2006). Resting-state medial temporal lobe activity predicts individual differences in memory. Society for Neuroscience 36<sup>th</sup> annual Meeting, Atlanta, GA: Society for Neuroscience. Online.
45. Wig, G.S., Cohen, N.J., Kelley, W.M. (2006). Binding items in memory: Dissociable regions subserve relational and non-relational aspects of memory formation. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

46. Wig, G.S., Grafton, S.T., Kelley, W.M. (2005). Medial-temporal lobe activity at rest predicts individual differences in memory. Program No. 814.5. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. Online.
47. Colvin, M.K., Wig, G.S., Kelley, W.M., Grafton, S.T., Gazzaniga, M.S. (2005). Callosal organization predicts the level and effect of right frontal activity during verbal encoding on subsequent memory in healthy young adults. Cognitive Neuroscience Society Annual Meeting, New York, NY.
48. Kelley, W.M., Moran, J.M., Wig, G.S., Demos, K.E., Summerville, L.H. (2005). Me, myself, and I: A domain general role for medial prefrontal cortex in self mentalizing. Cognitive Neuroscience Society Annual Meeting, New York, NY.
49. Demos, K.E., Wig, G.S., Kelley, W.M. (2005). Dude looks like a lady? A domain general role for left inferior frontal cortex in ambiguity resolution. Cognitive Neuroscience Society Annual Meeting, New York, NY.
50. Wig, G.S., Grafton, S.T., Demos, K.E., Kelley, W.M. (2004). Transient disruption of left inferior frontal activity eliminates conceptual priming and repetition suppression effects: A combined fMRI-rTMS study. Neurons and Memory Satellite Meeting. San Diego, CA.
51. Wig, G.S., Grafton, S.T., Demos, K.E., Kelley, W.M. (2004). Transient disruption of left inferior frontal activity eliminates conceptual priming and repetition suppression effects: A combined fMRI-rTMS study. Program No. 369.2. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
52. Somerville, L.H., Wig, G.S., Macrae, C.N., Whalen, P.J., Kelley, W.M. (2004). Dissociable roles for the hippocampus and amygdala in the representation of socially relevant contextual knowledge. Program No. 201.5. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
53. Demos, K.E., Wig, G.S., Moran, J.M., Kelley, W.M. (2004). A role for ambiguity resolution in the left inferior prefrontal cortex. Program No. 432.21. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
54. Colvin, M.K., Wig, G.S., Kelley, W.M., & Gazzaniga, M.S. (2004). Recruitment of the right frontal cortex during verbal encoding impairs subsequent memory performance in healthy young adults. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
55. Wig, G.S., Miller, M.B., Kingstone, A., & Kelley, W.M. (2003). Separable routes to human memory formation: Dissociating task and material contributions in the frontal cortex. The 5<sup>th</sup> Annual fMRI Experience Conference, Kings College, London, England.
56. Wig, G.S., Cohen, N.J., Kelley, W.M. (2003). Binding items in memory: Medial temporal lobe regions are sensitive to the relationship between stimuli. Program No. 514.11. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
57. Barnes, S.J., Pinel, J.P.J., Wig, G.S., Stuetgen, M.C., & Hölzel, C.H. (2003). Stimulation site determines the conditioned effects of kindling in rats. Canadian Society for Brain, Behaviour, and Cognitive Science 13th Annual Meeting, Hamilton, Ontario.

58. Wig, G.S., Moran, J.M., & Kelley, W.M. (2003). Putting a name to a face: Dissociating semantic and phonologic components of memory. Cognitive Neuroscience Society Annual Meeting, New York, NY.
59. Wig, G.S., Miller, M.B., Kingstone, A., & Kelley, W.M. (2003). Neural correlates of depth of processing for famous and nonfamous faces. 17<sup>th</sup> Annual Neuroscience Day at Dartmouth College, Hanover, NH.
60. Wig, G.S., Miller, M.B., & Kelley, W.M. (2002). Neural correlates of depth of processing for famous and nonfamous faces. Program No. 179.2. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
61. Kelley, W.M., Moran, J.M., Wig, G.S., Adams, R.B., Duval, M.G., & Magge, R.S. (2002). The neural funny bone: dissociating cognitive and affective components of humour. Program No. 517.6. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
62. Wig, G. S., Barnes, S. J., & Pinel, J. P. J. (2001). Conditioning of a flavor aversion by amygdala kindling. International Behavioral Neuroscience Society Annual Meeting, Cancun, Mexico.
63. Barnes, S. J., Pinel, J. P. J., Francis, L. H., & Wig, G. S. (2000). Conditioning of interictal behaviors by amygdala kindling. Joint Meeting of the Canadian Society for Brain, Behavior, and Cognitive Science and the British Experimental Psychology Association, Cambridge, England.
64. Barnes, S. J., Pinel, J. P. J., Francis, L. H., & Wig, G. S. (2000). Conditioning of ictal and interictal behaviors in rats by amygdala kindling: Context as the conditional stimulus. Society for Neuroscience 30<sup>th</sup> Annual Meeting, New Orleans.

## TEACHING

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### University of Texas at Dallas

- 2021 Instructor: Cognitive Psychology (Undergraduate)
- 2020 Instructor: Cognitive Psychology (Graduate), Fall Semester  
Instructor: Cognitive Psychology (Graduate), Spring Semester
- 2019 Instructor: Cognitive Psychology (Graduate), Fall Semester  
Instructor: Cognitive Psychology (Graduate), Spring Semester
- 2018 Instructor: Cognitive Psychology (Undergraduate)  
Instructor: Cognitive Psychology (Graduate)  
Guest lecturer: Functional brain imaging (Graduate)
- 2017 Instructor: Cognitive Psychology (Undergraduate)  
Instructor: Seminar in Cognition & Neuroscience—Brain Connectivity (Graduate)  
Instructor: Cognitive Psychology (Graduate)
- 2016 Instructor: Seminar in Cognition & Neuroscience—Brain Connectivity (Graduate)  
Instructor: Cognitive Psychology (Undergraduate)
- 2015 Instructor: Seminar in Cognition & Neuroscience—Brain Connectivity (Graduate)  
Instructor: School of Behavioral and Brain Sciences Independent Study (Undergraduate)  
Instructor: Cognitive Psychology (Undergraduate)
- 2014 Instructor: Seminar in Cognition & Neuroscience—Brain Connectivity (Graduate)  
Instructor: Cognitive Psychology (Undergraduate)
- 2013 Instructor: Cognitive Psychology (Undergraduate)

## Washington University in St. Louis

- 2012 Co-Instructor (with Steve Petersen & Marcus Raichle): Advanced Cognitive, Computational & Systems Neuroscience—Section on Brain Connectivity (Graduate)
- 2011 Co-Instructor (with Steve Petersen & Marcus Raichle): Advanced Cognitive, Computational & Systems Neuroscience—Section on Brain Connectivity (Graduate)

**MENTORSHIP - PRESENT**

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## Post-Doctoral

- 2016- Micaela Chan, Ph.D., UT Dallas

## Doctoral

- 2019- Ezra Winter-Nelson, UT Dallas
- 2018- Ziwei Zhang, UT Dallas
- 2016- Phillip Agres, UT Dallas
- 2015- Liang Han, UT Dallas

## Research Assistantship

- 2020- Madison Munson, UT Dallas
- 2016- Claudia Carreno, UT Dallas

**MENTORSHIP – PAST**

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- 2018-2020 Rebekah Rodriguez, Undergraduate Honors Student\*, UT Dallas (now PhD student at UNC Greensboro)  
\*Awarded UT Dallas Duane and Linda Buhrmester Undergraduate Research Award
- 2017-2019 Anupama Nair, Research Assistant, UT Dallas (now PhD student at Univ. of Delaware)
- 2015-2018 Joshua Koen, Post-doctoral trainee, UT Dallas (Co-Sponsor/Mentor on NRSA;  
now Assistant Professor at Notre Dame University)
- 2013-2017 Neil Savalia: Research Assistant, UT Dallas (now MD/PhD student at Yale University)
- 2013-2016 Micaela Chan: Ph.D., UT Dallas\* (now post-doctoral fellow at UT Dallas)  
\*Awarded UT Dallas Best PhD Dissertation Award
- 2014-2016 Phillip Agres: M.Sc., UT Dallas (now doctoral student at UT Dallas)
- 2014-2016 Fahd Alhazmi: M.Sc., UT Dallas (now doctoral student at CUNY)
- 2002-2003 Rajiv Magge: B.A., Dartmouth College (now Neurologist at Weil Cornell Medicine)

**PARTICIPATION ON STUDENT COMMITTEES**

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## University of Texas at Dallas

- 2020- Liang Han, Doctoral dissertation committee (Cognition & Neuroscience)
- 2020- Phillip Agres, Doctoral dissertation committee (Cognition & Neuroscience)
- 2020 Mehmet Gunal, Doctoral dissertation committee (Cognition & Neuroscience)
- 2017-2020 Dorcas Ofori-Boateng, Doctoral dissertation committee (Statistics; Dep. of Mathematics)
- 2014-2016 Micaela Chan, Doctoral dissertation committee (Co-Chair; Cognition & Neuroscience)
- Sam DeWitt, Doctoral dissertation committee (Cognition & Neuroscience)
- Jenny Wong, Doctoral dissertation committee (Cognition & Neuroscience)

2013 David Martinez, Doctoral thesis qualifying committee (Cognition & Neuroscience)  
Erin Horne, Doctoral thesis qualifying committee (Cognition & Neuroscience)

External

2019 Barbara Avelar Pereira, External opponent for Ph.D. defense  
Aging research center; Karolinska Institute; Stockholm, Sweden

**PROFESSIONAL SERVICE**

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University of Texas Southwestern Medical Center

2019- UTSW Advanced Imaging Research Center: Protocol review committee

University of Texas at Dallas

2020- UTD Brain Imaging Center: Operations, safety, and feasibility committee (Chair)

2020 Center for Vital Longevity science colloquium series organizer

2019-2020 UTD Brain Imaging Center: Operations, safety, and feasibility committee

2019 UTD Ad Hoc committee for tenure review

2017 Cog. & Neuro. program graduate student recruitment committee

Center for Vital Longevity science colloquium series organizer

2016 Cog. & Neuro. program graduate student recruitment committee

2015 UTD Founder's distinguished graduate fellowship evaluation committee

Cog. & Neuro. program graduate student recruitment committee

2014 Center for Vital Longevity science colloquium series organizer

School of Behavioral & Brain Sciences website design committee

Cog. & Neuro. program graduate training quantitative sequence evaluation committee

Dartmouth College

2003-2005 Dept. of Psych & Brain Sciences graduate program student representative

**CONFERENCE, MEETING, AND SYMPOSIUM ORGANIZATION**

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2021

Conference co-organizer: Conference on Resting-State and Brain Connectivity, Dallas, TX

2020

Meeting co-organizer: Dallas-Austin Area Memory Meeting, Virtual

2019

Meeting co-organizer: Dallas-Austin Area Memory Meeting, Dallas, TX

Conference co-organizer: Dallas Aging and Cognition Conference, Dallas, TX

2018

Meeting co-organizer: Dallas-Austin Area Memory Meeting, Waco, TX



2017

Conference co-organizer: Dallas Aging and Cognition Conference, Dallas, TX

Meeting co-organizer: Dallas-Austin Area Memory Meeting, Austin, TX

2016

Meeting co-organizer: Dallas-Austin Area Memory Meeting, Dallas, TX

2015

Symposium organizer &amp; chair: Understanding memory function from patterns of brain connectivity

Memory Disorders Research Society Annual Meeting, Cambridge, UK

## PROFESSIONAL MEMBERSHIP

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2018- Santa Fe Institute: Cognitive Regime Shift – When the Brain Breaks working group (invited)

2014- Memory Disorders Research Society (elected membership)

2009- Organization for Human Brain Mapping

2002- Society for Neuroscience

2001- Cognitive Neuroscience Society

## JOURNAL EDITORIAL SERVICE

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2011-2017 Neuroimage, Editorial Board

## AD HOC REVIEWING: JOURNALS

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Ageing Research Reviews

American Journal of Psychiatry

Annals of the NY Academy of Sciences

Behavioral Neuroscience

Biological Psychiatry

Biomedical Signal Processing &amp; Control

Brain and Language

Brain Connectivity

Brain Imaging and Behavior

Cognitive &amp; Affective Brain Science

Cerebral Cortex

Cortex

Current Biology

Developmental Cognitive Neuroscience

ELife

ENeuro

European Journal of Neuroscience

Human Brain Mapping

Journal of Cognitive Neuroscience

Journal of Intensive Care Medicine

Journal of the Int. Neuropsych. Soc.

Journal of Neuroimaging

Journal of Neurophysiology

Journal of Neuroscience

Nature Communications

Nature Neuroscience

Nature Reviews Neuroscience

Nature Scientific Reports

Network Neuroscience

Neurobiology of Learning and Memory

Neuroimage

Neuron

Neuropsychologia

Neuroscience

Neuroscience &amp; Biobehavioral Reviews

Proc. of the Nat. Acad. of Sci., USA

Psychological Science

Public Library of Science One

Public Library of Science Biology

Science Advances

Social Cog. &amp; Affective Neuroscience

Trends in Cognitive Sciences

Trends in Neurosciences

**GRANT PANEL SERVICE**

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2018 US National Science Foundation (NSF)

**AD HOC REVIEWING: GRANTS**

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US National Science Foundation (NSF)  
Canada Foundation for Innovation (CFI)  
Netherlands Organization for Scientific Research (NWO)  
Israeli Ministry of Science, Technology & Space  
Israel Science Foundation (ISF)  
UTHealth, Neuroscience Research Center BRAIN Initiative  
Fonds de recherche du Québec – Santé  
Human Frontiers Science Program (HFSP)