

# Gagan S. Wig, Ph.D.

University of Texas at Dallas | Center for Vital Longevity  
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Website: <https://www.wigneurolab.org>

## 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

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### Active

- 2023-2024 NIH Animal models for social dimensions of health and aging research network  
Independent pilot program award  
Title: Establishing cross-species homologies in aging-accompanied brain network decline  
Role: Principal Investigator  
Total costs: \$20,000
- 2023-2025 The University of Texas at Dallas—Office of research & innovation  
VP Research accelerator award  
Title: Longitudinal neuroimaging of the midlife brain and environment study  
Role: Principal Investigator  
Total costs: \$195,000
- 2019-2024 National Institutes of Health (NIH), National Institutes of Aging (NIA)  
R01 AG063930  
Title: Socioeconomic mediators of adult brain network resilience & vulnerability to cognitive decline  
Role: Principal Investigator  
Total costs: \$2,933,097
- 2016-2024 James S. McDonnell Foundation  
Understanding Human Cognition Scholar Award  
Title: A complex networks approach for understanding age-related cognitive decline  
Role: Principal Investigator  
Award amount: \$600,000
- ### Completed
- 2017-2022 National Institutes of Health (NIH), National Institutes of Aging (NIA)  
RF1 AG006265  
Title: Dallas Lifespan Brain Study—Wave 3: Neurodegeneration & resilience in cognition  
Role: Co-Investigator (PI: D. Park, Ph.D.)  
Total costs: \$5,900,000
- 2018-2020 National Institutes of Health (NIH), National Institutes of Aging (NIA)  
R56 AG058253  
Title: 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  
Title: 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)  
 Title: 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 Cognitive Neuroscience Scholarship, Lake Tahoe, CA  
 2002 Summer Institute in Cognitive Neuroscience 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 Westminster Savings Credit Union Post-Secondary Scholarship

## SCIENTIFIC ARTICLES UNDER REVIEW

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1. **Wig, G.S.**, Han, L., Chan, M.Y., Park, D.C., Hassenstab, J., Agres, P.F., Zhang, Z., Winter-Nelson, E. Cognitive and functional impacts of brain network vulnerability in aging adults. (under review).
2. Petersen, S.E., Seitzman, B.A., Nelson, S.N., **Wig, G.S.**, Gordon, E.M. Principles of cortical areas and their implications for neuroimaging. (under review).

## SCIENTIFIC PUBLICATIONS

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PDFs and weblinks to articles available at: <https://www.wigneurolab.org/publications>

1. **Wig, G.S.**, Klausner, S., Chan, M.Y., Sullins, C., Rayanki, A., Seale, M.A. (in press). Participant diversity is necessary to advance brain aging research. Trends in Cognitive Sciences.
2. Han, L., Chan, M.Y., Agres, P.F., Winter-Nelson, E., Zhang, Z., **Wig, G.S.** (in press). Measures of resting-state brain network segregation and integration vary in relation to data quantity: Implications for within and between subject comparisons of functional brain network organization. Cerebral Cortex.
3. **Wig, G.S.**, Chan, M.Y., Nguyen, L.T. (in press). Social determinants of brain health and brain changes across the human lifespan. Encyclopedia of the Human Brain, 2<sup>nd</sup> Edition. (J. Grafman, Editor). Elsevier.
4. Zhang, Z., Chan, M.Y., Han, L., Carreno, C.A., Winter-Nelson, E., **Wig, G.S.**, for the Alzheimer's Disease Neuroimaging Initiative (ADNI). (2023) Dissociable effects of Alzheimer's Disease-related cognitive dysfunction and aging on functional brain network segregation. The Journal of Neuroscience. 43(46):7879-7892.\*  
 \*Issue featured article (<https://www.jneurosci.org/content/43/46/7723>)
5. Smith, E.T., Hennessee, J.P., **Wig, G.S.**, Frank, S., Gonzalez, H., Bacci, J., Chan, M., Carreno, C.A., Kennedy, K.M., Rodrigue, K.M., Hertzog, C., Park, D.C. (2023). Longitudinal changes in grey matter correspond to changes in cognition across the lifespan: Implications for theories of cognition. Neurobiology of Aging. 129: 1-14.
6. Hennessee, J.P., Webb, C.E., Chen, X., Kennedy, K.M., **Wig, G.S.**, Park, D.C. (2022). The relationship of lateralization of brain activity to optimal cognitive function differs with age. Neuroimage. 264: 119736.
7. Chan, M.Y., Han, L., Carreno, C.A., Zhang, Z., Rodriguez, R.M., LaRose, M., Hassenstab, J., **Wig, G.S.** (2021). Long-term prognosis and educational determinants of brain network decline in older adult individuals. Nature Aging. 1: 1053-1067.\*  
 \*Issue cover story (<https://www.nature.com/nataging/volumes/1/issues/11>)  
 \*Commentary by: Sepulcre, J. (2021). College education as a modulator of the aging brain. Nature Aging. 1: 980-981.
8. Zheng, A., Montez, D.F., Marek, M., Gilmore, A.W., Newbold, D.J., Laumann, T.O., Kay, B.P., Seider, N.A., Van, A.N., Hampton, J.M., Gordon, E.M., Alexopoulos, D., Schlaggar, B.L., Sylvester, C.M., Greene, D.J., Shimony, J.S., Nelson, S.M., **Wig, G.S.**, Gratton, C., McDermott, K.B., Raichle, M.E., Gordon, E.M., Dosenbach, N.U.F. (2021). Parallel hippocampal-parietal circuits for self- and goal-oriented processing. Proceedings of the National Academy of Sciences USA. 118(34): e2101743118.
9. Chen, X., Farrell, M.E., Rundle, M.M., Chan, M.Y., Moore, W., **Wig, G.S.**, Park, D.C. (2021). The relationship of functional hippocampal activity, amyloid deposition, and longitudinal memory decline to memory complaints in cognitively healthy older adults. Neurobiology of Aging. 105: 318-326.
10. 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.

11. **Wig, G.S.** (2019). Alzheimer's Dilemmas. Issues in Science and Technology. 35(2): 5-8.\*  
\*Invited commentary on: Fitzpatrick, S.M. (2018). Asking the right questions in Alzheimer's research. Issues in Science and Technology. 35(1): 77-79.
12. 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.
13. 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.
14. 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.
15. 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.
16. **Wig, G.S.** (2017). Segregated systems of human brain networks. Trends in Cognitive Sciences. 21(12): 981-996.\*  
\*Trends in Cognitive Sciences—Editor's selection as best review of 2017  
(<http://crosstalk.cell.com/blog/best-reviews-we-published-in-2017-part-4>)
17. 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.
18. 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.
19. 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.
20. 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.
21. 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
22. **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.
23. **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.

24. Van Essen, D.C., Smith, S.M., Barch, D.M., Behrens, T.E.J., Yacoub, E., Ugurbil, K., **WU-Minn HCP Consortium**. (2013). The WU-Minn Human Connectome Project: an overview. Neuroimage. 80: 62-79.
25. 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.
26. 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.
27. 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.
28. **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.
29. 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.
30. 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.
31. **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.
32. 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.
33. 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.
34. **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.
35. **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.

36. 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.
37. 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.
38. 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.
39. 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.
40. Schacter, D.L., **Wig, G.S.**, Stevens, W.D. (2007). Reductions in cortical activity during priming. Current Opinion in Neurobiology. 17: 171-176.
41. 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.
42. **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
43. 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.
44. **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.
45. 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.
46. 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.
47. 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.
48. **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.
49. 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.

## VIDEOS AND OTHER SCIENTIFIC WORK

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1. Gresham-Lancaster, S., Perkis, T., Blanton, A., Malina, R., **Wig, G.S.** (2016). Data Stethoscope for the Connectome, Art-Science Performance. 9 Evenings 2 (9e2). Seattle, WA. \*  
\*Web link to performance: <https://vimeo.com/21608536>
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. \*  
\*Web link to video: <https://www.youtube.com/watch?v=3R6Gyh9WPjE>
3. **Wig, G.S.** (2006). Memory and the Resting Brain. Ph.D. Thesis – Dartmouth College. Department of Psychological and Brain Sciences. Hanover, NH.

## INVITED SCIENTIFIC TALKS

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- 2023
- The Ohio State University: Neuroimaging Research Seminar; Virtual  
Resting-State Brain Connectivity Biennial Conference, Dallas, TX  
Organization for Human Brain Mapping Annual Conference: Lifespan network neuroscience pre-symposium; Montreal, QC  
Simon Fraser University: Brain Resilience Workshop; Vancouver, BC  
University of Iowa: Neuroscience Graduate Program Seminar Series; Iowa City, IA  
Indiana University Bloomington: Indiana Clinical and Translational Sciences Institute Retreat; Bloomington, IN  
University of Pennsylvania: Institute on Aging Visiting Scholars Series; Philadelphia, PA  
Washington University School of Medicine: Festschrift for Dr. Steven E. Petersen  
Dallas Aging and Cognition Conference; Dallas, TX  
University of Washington School of Medicine: Alzheimer's Disease Research Center (ADRC) seminar; Virtual
- 2022
- The Ohio State University: Wexner Medical Center, Dept. of Neurology Grand Rounds; Columbus, OH  
Academy of Behavioral Medicine Research: Annual Meeting; Woodstock, VT  
UT Southwestern Medical School: Advanced Imaging Research Center Seminar; Virtual  
UT Dallas: Featured guest speaker on UTD Research 411 talk show; Virtual  
UT Austin: Cognition, Brain, & Behavior Seminar Series; Virtual
- 2021
- University of Michigan, Cognition and Cognitive Neuroscience Brown Bag; Virtual  
Memory Disorders Research Society Annual Meeting; Virtual  
Harvard University, D. Schacter Lab Meeting; Virtual  
Nathan Kline Institute, Center for Biomedical Imaging and Neuromodulation Science Series; Virtual  
Montreal Neurological Institute, Feindel Brain and Mind Lecture Series; Virtual



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  
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: Department of Psychiatry Brown-bag; 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: Neuroscience seminar; Portland, OR

Human Connectome Project: HCP Science Meetings; St. Louis, MO

Rutgers University: Department of Psychology seminar; Newark, NJ

University of Texas at Dallas: School of Behav. & Brain Sciences seminar; Dallas, TX

2010

Rotman Research Institute: Research seminar; 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, UK

## CONFERENCE ABSTRACTS & PRESENTATIONS

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1. Winter-Nelson, E., Bergmann, E., Chan, M.Y., Han, L., Klausner, S., Zhang, Z., Kavushansky, A., Asleh, J., Algoo, J., Kahn, I., Wig, G.S. (2023). Patterns of large-scale functional brain network decline are conserved across aging mice and humans. Society for Neuroscience Annual Meeting, Washington, DC.
2. Zhang, Z., Chan, M.Y., Han, L., Carreno, C.A., Winter-Nelson, E., Alzheimer's Disease Neuroimaging Initiative (ADNI), Wig, G.S. (2023). Independent effects of Alzheimer's disease dementia severity and aging on functional brain network organization at rest. Resting-state Brain Connectivity Annual Conference. Dallas, TX.
3. Chan, M.Y., Nelson, R., Han, L., Winter-Nelson, E., Wig, G.S. (2023). Reliability of network measure from resting-state fMRI events and sub-sampled timeseries. Resting-state Brain Connectivity Annual Conference. Dallas, TX.
4. Winter-Nelson, E., Bergmann, E., Chan, M.Y., Han, L., Klausner, S., Zhang, Z., Kavushansky, A., Asleh, J., Algoo, J., Kahn, I., Wig, G.S. (2023). Patterns of large-scale functional brain network decline are conserved across aging mice and humans. Resting-state Brain Connectivity Annual Conference. Dallas, TX.
5. Winter-Nelson, E., Bergmann, E., Chan, M.Y., Han, L., Klausner, S., Kavushansky, A., Asleh, J., Li, Y., Murdy, T., Zhang, S., Harris, J.A., Febo, M., Kaczorowski, C., Kahn, I., Wig, G.S. (2023). Cross-species homologies in patterns of large-scale functional brain network decline across aging mice and humans. Dallas Aging & Cognition Conference, Dallas, TX.
6. Zhang, Z., Chan, M.Y., Han, L., Carreno, C.A., Winter-Nelson, E., Alzheimer's Disease Neuroimaging Initiative (ADNI), Wig, G.S. (2023). Independent effects of Alzheimer's disease dementia severity and aging on functional brain network organization at rest. Dallas Aging & Cognition Conference, Dallas, TX.
7. Klausner, S., Seale, M.A., Sullins, C., Rayanki, A., Nguyen, L.T., Winter-Nelson, E., Zhang, Z., Chan, M., Carreno, C.A., Munson, M., Lakhanpal, S., Jaiswal, S., Reingle-Gonzalez, J.M., Park, D.C., Brown, E.S., Wig, G.S. (2023). The Midlife Brain and Environment Study (MBES): A longitudinal brain imaging study investigating the health, environment, and lifestyle factors that moderate brain and cognitive aging. Dallas Aging & Cognition Conference, Dallas, TX.
8. Winter-Nelson, E., Bergmann, E., Chan, M.Y., Han, L., Kavushansky, A., Asleh, J., Li, Y., Murdy, T., Zhang, S., Harris, J.A., Febo, M., Kaczorowski, C., Kahn, I., Wig, G.S. (2022). Cross-species homologies in patterns of large-scale functional brain network decline across aging mice and humans. Society for Neuroscience Annual Meeting, San Diego, CA.
9. Agres, P.F., Chan, M.Y., Han, L., Nair, A.S., Carreno, C.A., Wig, G.S. (2022). Individualized targeting and non-invasive stimulation of functional brain networks reveals stimulation-specific impacts on resting-state correlations. Society for Neuroscience Annual Meeting, San Diego, CA.
10. Zhang, Z., Chan, M.Y., Han, L., Carreno, C.A., Winter-Nelson, E., Alzheimer's Disease Neuroimaging Initiative (ADNI), Wig, G.S. (2022). Independent effects of Alzheimer's disease dementia severity and aging on functional brain network organization at rest. Society for Neuroscience Annual Meeting, San Diego, CA.
11. Winter-Nelson, E., Bergmann, E., Chan, M.Y., Han, L., Kavushansky, A., Asleh, J., Li, Y., Murdy, T., Zhang, S., Febo, M., Kaczorowski, C., Kahn, I., Wig, G.S. (2022). Cross-species homologies in patterns of large-scale functional brain network decline across aging mice and humans. Cognitive Neuroscience of Aging Conference, Dallas, TX.

12. Nguyen, L.T., Carreno, C.A., Munson, M. Barua, A., Sullins, C., Lakhanpal, S., Jaiswal, S., Brown, E.S., Reingle-Gonzalez, J.M., Park, D.C., Chan, M.Y., Wig, G.S. (2022). The Midlife Brain and Environment Study (MBES): A longitudinal brain imaging study investigating the health, environment, and lifestyle factors that moderate brain and cognitive aging. Cognitive Neuroscience of Aging Conference, Dallas, TX.
13. Zhang, Z., Chan, M.Y., Han, L., Carreno, C.A., Winter-Nelson, E., Alzheimer's Disease Neuroimaging Initiative (ADNI), Wig, G.S.. (2022). Independent effects of Alzheimer's disease and aging on functional brain network organization at rest. Cognitive Neuroscience of Aging Conference, Dallas, TX.
14. Winter-Nelson, E., Han, L., Chan, M.Y., Agres, P.A., Wig, G.S. (2021). The locus coeruleus as a heterogenous modulator of brain network dynamics. Dallas Austin Area Memory Meeting, Virtual.
15. Chan, M.Y , Carreno, C.A., Zhang, Z., Rodriguez, R.M., LaRose, M., Hassenstab, J., Wig, G.S. (2020). Educational attainment relates to longitudinal brain network decline. Dallas Austin Area Memory Meeting, Virtual.
16. 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. (Cancelled due to Covid-19 pandemic).
17. 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.
18. 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, Italy.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.

24. 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
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.

36. 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.
37. 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.
38. 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.
39. 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, WA.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.

49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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.

61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. 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.
67. 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.
68. 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.
69. 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.
70. 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, UK.
71. 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.
72. 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, ON.
73. 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.



74. 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.
75. 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.
76. 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 humor. Program No. 517.6. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. CD-ROM.
77. 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.
78. 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, UK.
79. 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, LA.

## TEACHING

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University of Texas at Dallas

Cognitive Psychology (Undergraduate): f2013, f2014, f2015, f2016, f2017, f2018, s2021, s2022, s2023, s2024

Cognitive Psychology (Graduate): s2017, s2018, s2019, f2019, s2020, f2020, f2021, f2022, f2023

Seminar in Cognition & Neuroscience—Brain Connectivity (Graduate): s2014, s2015, s2016, s2017

School of Behavioral and Brain Sciences Independent Study (Undergraduate): s2015, f2021, s2022

Invited Guest Teaching

2021: Indiana University – The Connected Brain (for Dr. Olaf Sporns)

2018: University of Texas at Dallas – Functional Neuroimaging (for Dr. Bart Rypma)

2012: Washington University in St. Louis – Advanced Cognitive, Computational & Systems Neuroscience—Section on Brain Connectivity (co-instructor w/ Drs. Steve Petersen & Marcus Raichle; for Dr. Todd Braver;)

2011: Washington University in St. Louis – Advanced Cognitive, Computational & Systems Neuroscience—Section on Brain Connectivity (co-instructor w/ Drs. S. Petersen, Brad Schlaggar, & Marcus Raichle; for Dr. Todd Braver)

**MENTORSHIP - PRESENT**

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## Research Scientist

2021- Micaela Chan, Ph.D., UT Dallas

## Doctoral

2021- Linh Nguyen, UT Dallas

2019- Ezra Winter-Nelson, UT Dallas

2018- Ziwei Zhang, UT Dallas

## Undergraduate

2023- Ryan Nelson, UT Dallas

2022- Maya Seale, UT Dallas

## Research Assistantship

2022- Cameron Sullins, UT Dallas

**MENTORSHIP – PAST (current position noted in parentheses)**

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2022-2024 Sarah Klausner, Research assistant, UT Dallas (MS in clinical mental health counselling student—UNT)

2016-2022 Phillip Agres: Doctoral student, UT Dallas  
PhD dissertation: “Effects of transcranial magnetic stimulation on individual functional brain networks”  
(Current position: Post-doctoral associate, University of Chicago)2015-2022 Liang Han: Doctoral student, UT Dallas  
PhD dissertation: “Time varying sources and vascular contributions to age-accompanied functional brain network re-organization”  
(Current position: Data scientist, JP Morgan Chase & Co.)

2020-2022 Madison Munson, Research assistant, UT Dallas (Data coordinator— Baylor Medical Center.)

2017-2022 Claudia Carreno, Research assistant, UT Dallas (PhD student—Virginia Tech)

2016-2021 Micaela Chan, Ph.D., Post-doctoral associate, UT Dallas (Research scientist—UT Dallas)

2018-2020 Rebekah Rodriguez, Undergraduate honors student, UT Dallas\* (PhD student—UNC Greensboro)  
\*Awarded UT Dallas Duane and Linda Buhrmester Undergraduate Research Award

2017-2019 Anupama Nair, Research assistant, UT Dallas (PhD student—Univ. of Delaware)

2016-2017 Claudia Carreno, M.Sc. student, UT Dallas (PhD student—Virginia Tech)

2013-2017 Neil Savalia: Research assistant, UT Dallas (MD/PhD student—Yale University)

2013-2016 Micaela Chan: Doctoral student, UT Dallas  
PhD dissertation: “Age-related desegregation of functional systems in healthy adults: The underlying patterns of connections and protective life-course factors”  
\*Awarded UT Dallas, School of Behavioral & Brain Sciences –Best PhD Dissertation Award  
(Current position: Research scientist, UT Dallas)

2014-2016 Phillip Agres: M.Sc. student, UT Dallas (PhD student—UT Dallas)

2014-2016 Fahd Alhazmi: M.Sc. student, UT Dallas (PhD student—CUNY)

2002-2003 Rajiv Magge: B.A. student, Dartmouth College (Neurologist—Weil Cornell Medicine)

## **PARTICIPATION ON STUDENT COMMITTEES**

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### University of Texas at Dallas

- 2023- Ziwei Zhang, Doctoral dissertation committee (Chair; Cognition & Neuroscience)  
 2022- Syed Rahman, Doctoral dissertation committee (Biomedical Engineering; UTD/UTSW joint)  
 2022- Linlin Fan, Doctoral dissertation committee (Psychology)  
 2020-2022 Phillip Agres, Doctoral dissertation committee (Chair; Cognition & Neuroscience)  
 2020-2022 Liang Han, Doctoral dissertation committee (Chair; 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

- 2022-2024 UTD BrainHealth Imaging Center: Operations, safety, and feasibility committee (Chair)  
 University international oversight committee (Vice-Chair)  
 2022-2023 Department of Psychology: Faculty search committee  
 University international oversight committee  
 Center for Vital Longevity: Science colloquium series organizer  
 School of Behavioral & Brain Sciences: Ad Hoc committee for mid-tenure review (Chair)  
 2021-2022 UTD BrainHealth Imaging Center: Operations, safety, and feasibility committee (Chair)  
 School of Behavioral & Brain Sciences: Ad Hoc committee for mid-tenure review (Chair)  
 Callier Center for Communication Disorders: Faculty search committee  
 School of Behavioral & Brain Sciences: Undergraduate research committee  
 2020-2021 UTD BrainHealth Imaging Center: Operations, safety, and feasibility committee (Chair)  
 Center for Vital Longevity: Science colloquium series organizer  
 2019-2020 UTD BrainHealth Imaging Center: Operations, safety, and feasibility committee  
 Department of Physics: Ad Hoc committee for tenure review  
 2017-2018 School of Behavioral & Brain Sciences, Cog. & Neuro. Program: Graduate student recruitment committee  
 Center for Vital Longevity: Science colloquium series organizer  
 2016-2017 School of Behavioral & Brain Sciences, Cog. & Neuro. Program: Graduate student recruitment committee  
 2015-2016 UTD Founder's distinguished graduate fellowship evaluation committee  
 School of Behavioral & Brain Sciences, Cog. & Neuro. Program: Graduate student recruitment committee

2014-2015 Center for Vital Longevity: Science colloquium series organizer  
 School of Behavioral & Brain Sciences: Website design committee  
 School of Behavioral & Brain Sciences: Graduate training quantitative sequence evaluation committee

**CONFERENCE, MEETING, AND SYMPOSIUM ORGANIZATION**

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2023 Meeting co-organizer: Dallas-Austin Area Memory Meeting, Dallas, TX  
 Meeting website: <https://sites.google.com/view/daamm/home>  
 Conference local organizing committee: Resting-State Brain Connectivity Conference, Dallas, TX  
 Meeting website: <http://www.restingstate.com>  
 Conference co-organizer: Dallas Aging and Cognition Conference, Dallas, TX  
 Meeting website: <https://dacc.utdallas.edu>

2022 Meeting co-organizer: Dallas-Austin Area Memory Meeting, Austin, TX  
 Meeting co-organizer: Cognitive Neuroscience of Aging Conference, Dallas, TX

2021 Meeting co-organizer: Dallas-Austin Area Memory Meeting, Virtual

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 & Chair: Memory Disorders Research Society Meeting, Cambridge, UK

**PROFESSIONAL MEMBERSHIP**

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2021- Alzheimer’s Association International Society

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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2025- Annals of the NY Academy of Sciences: The Year in Cognitive Neuroscience, Editor (incoming)  
 2023- Network Neuroscience, Associate Editor  
 2011-2017 Neuroimage, Editorial Board

## **AD HOC REVIEWING: JOURNALS**

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Ageing Research Reviews	Journal of Neuroscience
Alzheimer's and Dementia	Nature Aging
American Journal of Psychiatry	Nature Communications
Annals of the NY Academy of Sciences	Nature Medicine
Behavioral Neuroscience	Nature Neuroscience
Biological Psychiatry	Nature Reviews Neuroscience
Biomedical Signal Processing & Control	Nature Scientific Reports
Brain and Language	Network Neuroscience
Brain Connectivity	Neurobiology of Aging
Brain Imaging and Behavior	Neurobiology of Learning and Memory
Cognitive & Affective Brain Science	Neuroimage
Cerebral Cortex	Neuron
Cortex	Neuropsychologia
Current Biology	Neuroscience
Developmental Cognitive Neuroscience	Neuroscience & Biobehavioral Reviews
ELife	Proc. of the Nat. Acad. of Sci., USA
ENeuro	Psychological Science
European Journal of Neuroscience	Psychophysiology
Human Brain Mapping	Public Library of Science One
Journal of Cognitive Neuroscience	Public Library of Science Biology
Journal of Experimental Social Psychology	Science Advances
Journal of Intensive Care Medicine	Social Cog. & Affective Neuroscience
Journal of the Int. Neuropsych. Soc.	Trends in Cognitive Sciences
Journal of Neuroimaging	Trends in Neurosciences
Journal of Neurophysiology	

## **GRANT PANEL SERVICE**

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2023 Pennsylvania Department of Health (PA DOH)  
 2022 US National Institutes of Health (NIH): Human complex mental function study section  
 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)