

Susan Whitfield-Gabrieli

Curriculum Vitae

Interdisciplinary Science and Engineering Complex 617.373.4793
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McGovern Institute for Brain Research 617.324.2893
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Education

B.A. Biophysics/Physics, University of California Berkeley, 1988
Ph.D./ABD Department of Mathematics at University of California Berkeley (UCB), 1993
Ph.D. Department of Psychology, Neuroscience, UCB, 2017

Employment

Professor of Psychology, Northeastern University, July 1, 2018 - Current
Founding Director of the Northeastern University Biomedical Imaging Center (NUBIC),
Northeastern University, July 1, 2018 - Current
Principal Research Scientist, McGovern Institute for Brain Research, MIT, 2017 – Current
Research Scientist, McGovern Institute for Brain Research, MIT, 2005 – 2017
Science & Engineering Associate, Department of Psychiatry &
Department of Psychology, Stanford University, Stanford, 1999-2005
Software Engineering / QA, Project Manager, EEG Systems Laboratory, 1996-1999
Research Associate, EEG Systems Laboratory, San Francisco, CA, 1993-1996
Teaching Assistant, UC Berkeley, Mathematics Department, Berkeley, CA, 1992-1993
Research Associate, UC Berkeley, Physics Department, Berkeley, CA, 1988-1991
Research Associate, Lawrence Berkeley Laboratory, Berkeley, CA, 1988-1989

External Positions held

Conference Chair: Fourth Biennial Conference on Resting State / Brain Connectivity, September 11
14th 2014 @ MIT Cambridge (<http://www.restingstate.com/>)

Resting State Satellite Workshop: Interventions and Consciousness: MIT, September 15, 2014

International Organizing Committee: IOC for the Resting State/ Brain Connectivity
Conferences, 2014 - Present

Editorial Boards:

Editorial board, Neuroimage, 2012 – Current
Editorial board, BrainConnectivity, 2012 – Current
Editorial board, Frontiers in Neuroscience, 2012 – Current
Editorial board, Frontiers in Psychiatry 2012 – Current
Editorial board, Network Neuroscience 2016 – Current
Board of Directors, Society for Brain Connectivity, 2015 - Current

Honors

Keynote Lecturer @ Human Brain Mapping Conference June 2015 (top nomination:
<http://www.humanbrainmapping.org/i4a/pages/index.cfm?pageID=3625>)

UROP Students supervised

Suma Anand: Fall, Spring, Summer 2014/2015
David Zhou, Fall 2017

Ph.D. Students Supervised

Ariel Brown, Department of Psychology, Boston University
Adina Fischer, Department of Molecular and Experimental Medicine, Dartmouth University

Postdoctoral Mentorship:

Harvard Catalyst K12 Award:

Mark Halko, Postdoctoral Fellow, Harvard Medical School (HMS)

NRSA Award:

Roselinde Kaiser, Postdoctoral Fellow, HMS

MIT Postdoctoral Mentorship:

Jenny Chai, MIT

Clemens Bauer, MIT

Kana Okano, MIT

Guusje Collin, MD/Ph.D., MIT

Assistant Professor Mentorship

K23 Award Mentorships:

Laura Holsen, Assistant Professor of Psychiatry, HMS

Luke Stoeckel, Assistant Professor of Psychiatry, HMS

Gagan Joshi, Assistant Professor of Psychiatry, HMS

Ann Shinn, Assistant Professor of Psychiatry, HMS

Fulbright Scholar Mentorshop:

Peter Stanwell, Associate Professor, Health and Medicine, University of Newcastle, Callaghan

Teaching experience

MGH Training Short Courses*

Functional MRI Visiting Fellowships: MGH, Charlestown, MA (Twice a year for each year: 2005-2017)

Two-Week Multi-Modality Short Courses: MGH, Charlestown, MA (Once a year for each year: 2006-2017)

Connectivity Courses: Structural and Functional Brain Connectivity, MGH, Charlestown, MA (Once or twice a year: 2013-2017)

Conn Courses (Director): twice a year (e.g., April 30-May 4, 2018 @ MGH)

http://www.nmr.mgh.harvard.edu/Learning_The_CONN_Toolbox

Domestic Courses:

fMRI Analysis for Basic and Clinical Investigators, Duke, NC 2009

fMRI Connectivity Analyses, Chicago, IL Nov 6-10, 2010

fMRI Network Analysis CMU, Pittsburgh, PA, Jan 22-25, 2011

fMRI Network Analysis, Chicago, IL Sept 26-30, 2011
Network Analysis: Functional Connectivity, Johns Hopkins, Baltimore MD, Dec 12-16, 2011
Functional Connectivity Course, Pittsburgh, PA April 10-14, 2012
Multi Modal Brain Imaging, From Theory To Applications, University of North Carolina at Greensboro, Joint School of Nanoscience and Nanoengineering, June 23-27, 2014
Functional Connectivity Course, Cincinnati Children's Hospital, July 10-15, 2015.

International Courses:

fMRI Analysis for Basic and Clinical Investigators, South China Normal University, China, July 11-15, 2011.
Functional Connectivity Course, Hong Kong University, Nov 13-17, 2012.

MIT / HST Semester Courses:

9.S913 Graduate Course in Functional Imaging, BCS, MIT, USA, (Spring 2012)
HST-583: Functional MRI: Data Acquisition and Analysis: Harvard/ MIT: HST, (Fall 2006, Fall 2008, Fall 2010, Fall 2012: Lecturer)
9.583/HST-583: Functional MRI: Data Acquisition and Analysis: Harvard/ MIT: HST, (Fall 2015: Course Director)
9.S916 (Spring 2016) White Matter: The Wiring of the Human Brain (Instructor: Nancy Kanwisher, Whitfield-Gabrieli Lecturer)
HST-583 Functional MRI: Data Acquisition and Analysis: Harvard/ MIT: HST (Fall 2017: Course Director)

**Teaching evaluations for all courses available upon request*

Service

Ad-Hoc Reviewer:

American Journal of Psychiatry
Archives of General Psychiatry / JAMA Psychiatry
BrainConnectivity
Biological Psychiatry
Cerebral Cortex
Cortex
Human Brain Mapping
Journal of Affective Disorders
Journal of Neuroscience
NeuroImage
Magnetic Resonance in Medicine
Nature
Neuron
Neuropsychology Review
PLoS
PNAS
Progress in Neuro-Psychopharmacology & Biological Psychiatry
Psychiatric Research: Neuroimaging
Psychological Science

Technological and Other Scientific Innovations

Conn: A Functional Connectivity Toolbox (Alfonso Nieto-Castanon):

CONN (Current Downloads > 62,000) is a Matlab-based cross-platform software for the computation, display, and analysis of functional connectivity in fMRI (fcMRI). Connectivity measures include Surface- and Volume-based analyses, Seed-to-Voxel connectivity maps, ROI-to-ROI connectivity matrices, Graph metrics, and Voxel-to-Voxel measures (intrinsic connectivity, local correlation maps, and others), weighted correlation, PPI, and gPPI models for task-related designs, Dynamic connectivity analyses, FWE-control of connectivity matrices (NBS), and Connectome-wide analyses, multi-voxel pattern analysis (MVPA). <http://www.nitrc.org/projects/conn>

References:

Whitfield-Gabrieli, S. and Nieto-Castanon, A. (2012). Conn: A functional connectivity toolbox for correlated and anticorrelated brain networks. *Brain Connectivity*. 2:125-41 (742 citations, Consistently noted as being within the top 5 cited articles of journal)

Chai X.J., Nieto-Castanon A., Ongur D., Whitfield-Gabrieli S. (2012) Anticorrelations in resting state networks without global signal regression. *NeuroImage* 59:1420-1428, (441 citations)

ART: A Quality Control Toolbox for Functional Neuroimaging:

ART: The *Art* toolbox provides a unique set of integrated functions that provide comprehensive quality assurance capabilities that improve the accuracy and validity for both fMRI task activation and resting state functional connectivity analyses. It is a publicly available toolbox for MATLAB and Python which facilitates detection and correction of artifacts, provides diagnostic tools which assist in appropriate design specification and is interoperable with standard analysis software packages (e.g., SPM, FSL, Conn). http://www.nitrc.org/projects/artifact_detect

Reference:

Whitfield-Gabrieli S., Ghosh S., Nieto-Castanon A., Gollub R.L., Artifact Detection, Rejection and Quality Assurance of fMRI Data Increase Accuracy in Task Activation and Functional Connectivity Studies (In Revision).

REX: A Region of Interest Toolbox:

Rex: The rex tool is designed to perform efficient extraction of image values and time series from single voxels, clusters and cluster collections. In addition to data extraction the rex tool performs ROI-based. <http://web.mit.edu/swg/software.htm>

Publications

- 1) Fisher, K.A., **Whitfield, S.L.**, Thomson, R.E., Yanagimoto, K.C., Gustafsson, M.G.L., Clarke, J. (1990). Scanning tunneling microscopy of planar biomembranes. Ultramicroscopy, 33:117-126.
- 2) Fisher, K.A., **Whitfield, S.L.**, Thomson, R.E., Yanagimoto, K.C., Gustafsson, M.G., Clarke, J. (1990). Measuring changes in membrane thickness by scanning tunneling microscopy. Biochim Biophys Acta, 1023:325-334.
- 3) Gevins, A.S., Smith, M.E., Le, J., Leong, H., Bennett, J., Martin, N., McEvoy, L., Du, R., **Whitfield, S.L.** (1995). High resolution evoked potential imaging of the cortical dynamics of human working memory. Electroencephalography and Clinical Neurophysiology, 98:327-348.
- 4) Gevins, A.S., Smith, M.E., Leong, H., McEvoy, L., **Whitfield, S.L.**, Du, R., Rush, G. (1998). Measurement of mental workload during computer-based tasks with EEG pattern recognition. Human Factors, 40:79-91.
- 5) Ford, J.M., Mathalon, D.H., Kalba, S., **Whitfield, S.L.**, Faustman W.O., Roth W.T. (2001). Cortical responsiveness during inner speech in schizophrenia: an event-related brain potential study. American Journal of Psychiatry, 158:914-1916.
- 6) Ford, J.M., Mathalon, D.H., Kalba, S., **Whitfield, S.L.**, Faustman, W.O., Roth, W.T. (2001). Cortical responsiveness during talking and listening in schizophrenia: an event-related brain potential study. Biological Psychiatry, 50:540-549.
- 7) Ford, J.M., Mathalon, D.H., **Whitfield, S.L.**, Faustman, W., Roth, W.T. (2002). Reduced communication between frontal and temporal lobes during talking in schizophrenia. Biological Psychiatry, 21: 485-492.
- 8) Canli, T., Sivers, H., **Whitfield, S.L.**, Gotlib, I.H., Gabrieli, J.D.E. (2002). Amygdala response to happy faces as a function of extraversion. Science, 296: 2191.
- 9) Mathalon, D.H., **Whitfield, S.L.**, Ford, J.M. (2003). Anatomy of an error: ERP and fMRI. Biological Psychology, 64:119-141.
- 10) Ford, J.M., Gray, E.M., **Whitfield, S.L.**, Turken, A.U., Glover, G., Faustman, W.O., Mathalon, D.H. (2004). Combining ERP and fMRI data to understand response inhibition in schizophrenia. Archives of General Psychiatry, 61:119-129.
- 11) Anderson, M.C., Ochsner, K.N., Kuhl, B., Cooper, J., Robertson, E., **Gabrieli, S.W.**, Glover, G.H., Gabrieli, J.D.E. (2004). Neural systems underlying the suppression of unwanted memories. Science, 203: 232-235.
- 12) DeCharms, C.R., Christoff, K., Glover, G.H., Pauly, J.M., **Whitfield, S.**, Gabrieli, J.D.E. (2004). Learned regulation of spatially localized brain activation using real-time fMRI. NeuroImage, 21:436-443.
- 13) Mather, M., Canli, T., English, T., **Whitfield, S.**, Wais, P., Ochsner, K., Gabrieli, J.D.E., Carstensen, L.L. (2004). Amygdala responses to emotionally valenced stimuli in older and younger adults. Psychological Science, 15:259-263.
- 14) Golby, A., Silverberg, G., Race, E., **Gabrieli, S.**, O'Shea, J., Knierim, K., Stebbins, G., Gabrieli, J. (2005). Memory encoding in Alzheimer's Disease: An fMRI study of explicit and implicit memory. Brain, 128:773-787.
- 15) Ford, J.M., Johnson, M.B., **Whitfield, S.L.**, Faustman, W.O., Mathalon, D.M. (2005). Delayed hemodynamic responses in schizophrenia. NeuroImage, 26:922-31.
- 16) Canli, T., Sivers, H., Thomason, M.E., **Whitfield-Gabrieli, S.**, Gabrieli, J.D, and Gotlib, I.H. (2004). Brain activation to emotional words in depressed versus healthy subjects. NeuroReport, 15: 2585-2588.
- 17) Canli, T., Cooney, R.E., Goldin, P., Shah, M., Sivers, H., Thomason, M.E., **Whitfield-Gabrieli, S.**, Gabrieli, J.D.E., Gotlib, I.H. (2005). Amygdala reactivity to emotional faces predicts improvement in major depression. NeuroReport, 16:1267-1270.

- 18) Gotlib, I.H., Sivers, H., Gabrieli, J.D.E., **Whitfield-Gabrieli, S.**, Goldin, P., Minor, K.L., Canli, T. (2005). Subgenual anterior cingulate activation to valenced emotional stimuli in major depression. NeuroReport, 16:1731-1734.
- 19) Adcock, R.A., Thangavel, A., **Whitfield-Gabrieli, S.**, Knutson, B., Gabrieli, J.D. (2006). Reward-motivated learning: mesolimbic activation precedes memory formation. Neuron, 50:507-517.
- 20) Xia, Y., Turken, A., **Whitfield-Gabrieli, S.**, Gabrieli, J. (2005). Knowledge-Based classification of neuronal fibers in entire brain. Med Image Comput Comput Assist Interv, 8:205-12.
- 21) Hoeft, F., Hernandez, A., McMillon, G., Taylor-Hill, H., Martindale, J.L., Meyler, A., Keller, A., Siok, W.T., Deutsch, G.K., Just, M.A., **Whitfield-Gabrieli, S.**, Gabrieli, J.D. (2006). Neural basis of dyslexia: a comparison between dyslexic and nondyslexic children equated for reading ability. Journal of Neuroscience, 26:10700-10708.
- 22) Meyler, A., Keller, T.A., Cherkassky, V.L., Donghoon, L., Hoeft, F., **Whitfield-Gabrieli, S.**, Gabrieli, J.D.E., Just, M.A. (2007). Brain activation during sentence comprehension among good and poor readers. Cerebral Cortex, 17:2780-2787.
- 23) Golarai, G., Ghahremani, D.G., **Whitfield-Gabrieli, S.**, Reiss, A., Eberhardt, J.L., Gabrieli, J.D.E., Grill-Spector, K. (2007). Differential development of high-level visual cortex correlates with category-specific recognition memory. Nature Neuroscience, 10: 512-522.
- 24) Gabrieli, J.D.E. and **Whitfield-Gabrieli, S.**, (2007). Attention to neglect. Neuron, 53, 776-777.
- 25) Hoeft, F., Ueno, T., Reiss, A.L., Meyler, A., **Whitfield-Gabrieli, S.**, Glover, G., Keller, T.A., Kobayashi, N., Mazaika, P., Jo, B., Just, M.A., Gabrieli, J.D.E. (2007). Prediction of children's reading skills using behavioral, functional, and structural neuroimaging measures. Behavioral Neuroscience, 121:602-13.
- 26) Hoeft, F., Meyler, A., Hernandez, A., Juel, C., Taylor-Hill, H., Martindale, J.L., McMillon, G., Kolchugina, G., Black, J.M., Faizi, A., Deutsch, G.K., Siok, W.T., Reiss, A.L., **Whitfield-Gabrieli, S.**, Gabrieli, J.D.E. (2007). Functional and morphometric brain dissociation between dyslexia and reading ability. Proceedings of the National Academy of Sciences of the United States of America, 104:4234-4239.
- 27) Ofen, N., Yun-Ching, K., Sokol-Hessner, P., Kim, H., **Whitfield-Gabrieli, S.**, Gabrieli, J.D.E. (2007). Development of the declarative memory system in the human brain. Nature Neuroscience, 10:1198-1205.
- 28) Thomason, M.E., Race, E., Burrows, B., **Whitfield-Gabrieli, S.**, Glover, G.H., Gabrieli, J.D. (2009). Development of spatial and verbal working memory capacity in the human brain. Journal of Cognitive Neuroscience, 21:316-32
- 29) Turken, A., **Whitfield-Gabrieli, S.**, Bammer, R., Baldo, J., Dronkers, N., Gabrieli, J.D.E., (2008). Cognitive processing speed and the structure of white matter pathways: convergent evidence from normal variation and lesion studies. NeuroImage, 42:1032-1044.
- 30) Trivedi, M.A., Murphy, C.M., Goetz, C., Shah, R.C., Gabrieli, J.D., **Whitfield-Gabrieli, S.**, Turner, D.A., Stebbins, G.T. (2008). fMRI activation changes during successful episodic memory encoding and recognition in amnesic mild cognitive impairment relative to cognitively healthy older adults. Dement Geriatr Cogn Disord, 26: 123-137.
- 31) Balci S.K., Sabuncu M.R., Yoo J., Shosh S.S., **Whitfield-Gabrieli, S.**, Gabrieli J.D., Golland P. (2008). Prediction of successful memory encoding from fMRI data. Med Image Comput Comput Assist Interv, 11:97-104.
- 32) Bergerbest, D., Gabrieli, J.D., **Whitfield-Gabrieli, S.**, Kim, H., Stebbins, G.T., Bennett, D.A., Fleischman, D. (2009). Age-associated reduction of asymmetry in prefrontal function and preservation of conceptual repetition priming. NeuroImage, 45: 237-246
- 33) **Whitfield-Gabrieli, S.**, Thermenos, H., Milanovic, S., Tsuang, M., Faraone, S., McCarley, R., Shenton, M., Green, A., LaViolette, P., Wojcik, J., Gabrieli, J.D.E., Seidman, L. (2009). Hyperactivity

and hyperconnectivity of the default network in schizophrenia and in first degree relatives of persons with schizophrenia, Proceedings of the National Academy of Sciences of the United States of America, 106:1279-84

- 34) Scholz, J, Triantafyllou, C., **Whitfield-Gabrieli, S.**, Brown, E.N., Saxe R (2009). Distinct regions of right temporo-parietal junction are selective for theory of mind and exogenous attention. PLoS One, 4:e4869.
- 35) Saxe, R.R., **Whitfield-Gabrieli, S.**, Scholz, J., Pelphrey, K.A. (2009). Brain regions for perceiving and reasoning about other people in school-aged children. Child Development, 80: 1197-1209.
- 36) Thermenos, H., Ming, T., **Whitfield-Gabrieli, S.**, Makris, N., Le Violet, P., Buka. S, Milonovic, S., Seidman, L. (2010). An fMRI study of working memory in persons with bipolar disorder or at genetic risk for bipolar disorder. Am J Med Genet B Neuropsychiatr Genet, 153:120-131.
- 37) Brown, A.B., Biederman, J., Valera, E.M., Doyle, A.E., Bush, G., Spencer, T., Monuteaux, M.C., Mick, E., **Whitfield-Gabrieli, S.**, Makris, N., LaViolette, P.S., Oscar-Berman, M., Faraone, S.V., Seidman, L.J. (2010). Effect of dopamine transporter gene (SLC6A3) variation on dorsal anterior cingulate function in ADHD. Am J Med Genet B Neuropsychiatr Genet, 153B:365-375.
- 38) Valera, E.M., Brown, A., Biederman, J., Faraone, S.V., Makris, N., Monuteaux, M.C., **Whitfield-Gabrieli, S.**, Vitulano, M., Schille, M., Seidman, L.J. (2010). Sex differences in the functional neuroanatomy of working memory in adults with ADHD. Am Journal of Psychiatry, 167:86-94.
- 39) Goldstein, J.M., Jerram, M., Abbs, B., **Whitfield-Gabrieli, S.**, Makris, N. (2010). Sex differences in stress response circuitry activation dependent on female hormonal cycle. Journal of Neuroscience, 30:431-8.
- 40) Biswal, B. B., Mennes, M., Zuo, X., Gohel, S., Kelly, C., Smith, S. M., Beckmann, C. F., Adelstein, J. S., Buckner, R. L., Colcombe, S., Dogonowski, A., Ernst, M., Fair, D., Hampson, M., Hoptman, M.J., Hyde, J. S., Kiviniemi, V. J., Kötter, R., Li, S., Lin, C., Lowe, M. J., Mackay, C., Madden, D. J., Madsen, K. H., Margulies, D.S., Mayberg, H. S., McMahon, K., Monk, C. S., Mostofsky, S. H., Nagel, B. J., Pekar, J. J., Peltier, S. J., Petersen, S. E., Riedl, V., Rombouts, S. A., Rypma, B., Schlaggar, B. L., Seidler, S. S., Siegle, G. J., Sorg, C., Teng, G., Vejjola, J., Villringer, A., Walter, M., Wang, L., Weng, X., **Whitfield-Gabrieli, S.**, Williamson, P., Windischberger, C., Zang, Y., Zhang, H., Castellanos, F. X., Milham, M. P., (2010). Towards discovery science of human brain function. Proceedings of the National Academy of Sciences of the United States of America, 107:4734-9
- 41) Fedorenko, E., Hsieh, P.J., Nieto Castanon, A., **Whitfield-Gabrieli, S.**, Kanwisher, N. (2010). New method for fMRI investigations of language: Defining ROIs functionally in individual subjects. Journal of Neurophysiology, 104:1177-94
- 42) **Whitfield-Gabrieli, S.** and Gabrieli, J.D. (2010). Idle Minds and What They May Say about Intelligence. Scientific American, January 5, 2010.
- 43) Rule, N., Moran, J., Freeman, J., **Whitfield-Gabrieli, S.**, Gabrieli, J.D., Ambady, N. (2011). Face value: amygdale response reflects the validity of first impressions. NeuroImage, 54:734-41
- 44) Hinds, O., Ghosh, S., Thompson, T.W., Yoo, J.J., **Whitfield-Gabrieli, S.**, Triantafyllou, C., Gabrieli, J.D. (2011). Computing moment-to-moment BOLD activation for real-time neurofeedback. NeuroImage, 54:361-8.
- 45) **Whitfield-Gabrieli S.**, Moran J.M., Triantafyllou. C., Saxe, R., Gabrieli J.D.E. (2010). Associations and dissociations between default and self- reference networks in the human Brain. NeuroImage, 55:225-32.
- 46) Benjamin, C., Lieberman, D.A., Chang, M., Ofen, N., **Whitfield-Gabrieli, S.**, Gabrieli, J.D., Gaab, N.(2010). The influence of rest period instructions on the default mode network. Frontiers of Human Neuroscience, 4:218.

- 47) Hoeft F., McCandliss B, Black J., Gantman A., Zakerani N, Hulme C., Lyytinen H., **Whitfield-Gabrieli S.**, Glover G.H., Reiss A.L., Gabrieli J.D.E. (2011). Neural systems predicting long-term outcome in dyslexia. Proceedings of the National Academy of Sciences of the United States of America, 108:361-6.
- 48) Holsen, A., Spaeth S., Lee,J.H, Ogden, L.A., Klibanski, A., **Whitfield-Gabrieli, S.**, Goldstein, J.M. (2011). Stress response circuitry hypoactivation related to hormonal dysfunction in women with major depression. Journal of Affective Disorders, 131:379-87.
- 49) Trivedi MA, Stoub TR, Murphy CM, George S, deToledo-Morrell L, Shah RC, **Whitfield-Gabrieli S**, Gabrieli JD, Stebbins GT. (2011) Entorhinal cortex volume is associated with episodic memory related brain activation in normal aging and amnesic mild cognitive impairment. Brain Imaging Behav. 5(2):126-36.
- 50) Brown A.B., Biederman J., Valera E., Makris N., Doyle A., **Whitfield-Gabrieli S.**, Mick E., Spencer T., Faraone S., Seidman L. (2011). Relationship of DAT1 and adult ADHD to task-positive and task-negative working memory networks. Psychiatry Research, 193:7-16.
- 51) Chai, J., **Whitfield-Gabrieli, S.**, Castañón, A., Gabrieli, D.J., McCarthy, J.M., Cohen, B.M., Shinn A.K., Öngür, D. (2011). Abnormal medial prefrontal cortex resting-state connectivity in bipolar disorder and schizophrenia. Neuropsychopharmacology, 36:2009-17.
- 52) Thermenos H.W., Makris N., **Whitfield-Gabrieli S.**, Brown A. B., Giulianoa A.J., Lee E.H., Faraone S.V., Tsuang M.T., Seidman L.J. (2011). A functional MRI study of working memory in adolescents and young adults at genetic risk for bipolar disorder: preliminary finding. Bipolar Disorders, 13: 272–286.
- 53) Kovelman I, Norton ES, Christodoulou JA, Gaab N, Lieberman DA, Triantafyllou C, Wolf M, **Whitfield-Gabrieli S**, Gabrieli JD. (2011). Brain basis of phonological awareness for spoken language in children and its disruption in dyslexia. Cerebral Cortex, 22:754-64.
- 54) Yoo J.J., Hinds O., Ofen N., Thompson T.W., **Whitfield-Gabrieli S**, Triantafyllou C., Gabrieli J.D. (2012). When the brain is prepared to learn: Enhancing human learning using real-time fMRI. NeuroImage, 59:846-52.
- 55) Chai X.J., Nieto-Castanon A., Ongur D., **Whitfield-Gabrieli S.** (2012). Anticorrelations in resting state networks without global signal regression. NeuroImage, 26:501-13.
- 56) Chan C.C., Wong A.W., Ting K.H., **Whitfield-Gabrieli S.**, He J., Lee T.M. (2011). Cross auditory-spatial learning in early-blind individuals. Human Brain Mapping, 33:2714-27
- 57) Rosen AC, Sugiura L, Kramer JH, **Whitfield-Gabrieli S**, Gabrieli JD. (2011). Cognitive training changes hippocampal function in mild cognitive impairment: a pilot study. J Alzheimers Dis., 26:349-57.
- 58) Tanaka H., Black J.M., Hulme C., Stanley L.M., Kesler S.R., **Whitfield-Gabrieli S.**, Reiss A.L., Gabrieli J.D., Hoeft F. (2011).The brain basis of the phonological deficit in dyslexia Is independent of IQ. Psychological Science, 22:1442-51.
- 59) **Whitfield-Gabrieli, S** and Ford JM. (2012). “Default Mode Network Activity and Connectivity in Psychopathology” Annual Review of Clinical Psychology, 8:49-76
- 60) Holsen L.M.*, Lee J.-H.*, Spaeth S.B., Ogden L.A., Klibanski A., **Whitfield-Gabrieli S.**, Sloan R.P., Goldstein J.M.(2012). Brain hypoactivation, autonomic nervous system dysregulation, and gonadal hormones in depression: A preliminary study. Neuroscience Letters, 514:57-61.
- 61) Christodoulou, J.A., Walker, L.M., Del Tufo, S.N., Katzir, T., Gabrieli, J.D.E., **Whitfield-Gabrieli, S.**, Chang. B.S. (2012). Abnormal structural and functional connectivity in gray matter heterotopia. Epilepsy & Behavior, 29: 400-406.
- 62) **Whitfield-Gabrieli, S.**, Nieto-Casanon, A. (2012). A resting-state functional connectivity toolbox for correlations and anticorrelations. Brain Connectivity, 2:125-41.

- 63) Ofen N., Chai X.J., Schuil K.D., **Whitfield-Gabrieli S.**, Gabrieli J.D. (2012). The development of brain systems associated with successful memory retrieval of scenes. Journal of Neuroscience, 32:10012-20.
- 64) Doehrmann O., Ghosh S., Polli F., Reynolds G., Horn F., Keshavan A., Triantafyllou C., Saygin Z., **Whitfield-Gabrieli S.**, Hofmann S.G., Pollack M., Gabrieli J. (2013). Predicting treatment response in social anxiety disorder from functional magnetic resonance imaging. JAMA Psychiatry, 70:87-97.
- 65) Hoefl, F. Gabrieli, J.D.E., **Whitfield-Gabrieli, S.**, Haas, B.W., Bammer, R., Menon, V., Spiegel, D. (2013). Functional brain basis of hypnotizability. JAMA Psychiatry, 69:1064-72.
- 66) Hinds O., Thompson T.W., Ghosh S., Yoo J.J., **Whitfield-Gabrieli S.**, Triantafyllou C, Gabrieli J.D. (2013). Roles of default-mode network and supplementary motor area in human vigilance performance: evidence from real-time fMRI. Journal of Neurophysiology, 109:1250-8.
- 67) Arnold Anteraper S., **Whitfield-Gabrieli S.**, Keil B., Shannon S., Gabrieli J.D., Triantafyllou C. (2013). Exploring Functional Connectivity Networks with Multi-Channel Brain Array Coils. Brain Connectivity, 3:302-315.
- 68) Zhang Y., **Whitfield-Gabrieli S.**, Christodoulou J.A., Gabrieli J.D. (2013). Atypical balance between occipital and fronto-parietal activation for visual shape extraction in dyslexia. PLoS One, 8:e67331.
- 69) Holsen L.M, Lancaster K., Klibanski A., **Whitfield-Gabrieli S.**, Cherkerzian S., Buka S., and YGoldstein J.M. (2013). HPA-axis hormone modulation of stress response circuitry activity in women with remitted major depression. Neuroscience, 250:733-42.
- 70) Redcay E., Moran J.M., Mavros P.L., Tager-Flusberg H., Gabrieli J.D.E., **Whitfield-Gabrieli S.** (2013). Intrinsic functional network organization in high-functioning adolescents with autism spectrum disorder. Frontiers of Human Neuroscience, 7:573.
- 71) Chai X.J., Ofen N., Gabrieli J.D., **Whitfield-Gabrieli S.** (2014). Development of deactivation of the default-mode network during episodic memory formation. NeuroImage, 84:932-938.
- 72) Christodoulou, J.A., Barnard, M.E., Del Tufo, S.N., Katzir T., **Whitfield-Gabrieli S.** Gabrieli J.D.E., Chang, B.S. (2014). Integration of gray matter nodules into functional cortical circuits in periventricular heterotopia. Epilepsy Behavior, 29:400-6.
- 73) Brewer, J. A. Garrison, K. M., and **Whitfield-Gabrieli, S.** (2013). “What about the “self” is processed in the posterior cingulate cortex?” Frontiers of Human Neuroscience, 7:647.
- 74) Thermenos HW, Keshavan MS, Juelich RJ, Molokotos E, **Whitfield-Gabrieli S**, Brent BK, Makris N, Seidman LJ. (2013) A review of neuroimaging studies of young relatives of individuals with schizophrenia: a developmental perspective from schizotaxia to schizophrenia. Am J Med Genet B Neuropsychiatr Genet. 162B(7):604-35.
- 75) Thermenos H.W., **Whitfield-Gabrieli S.**, Seidman L.J., Kuperberg G., Juelich R.J., Divatia S., Riley C., Jabbar G.A., Shenton M., Kubicki M., Manschreck T., Keshavan M., Delisi L.E. (2014). Altered language network activity in young people at familial high-risk for schizophrenia. Schizophrenia Research, 151(1-3):229-37.
- 76) Chai J., Ofen N., Gabrieli J.D.E., **Whitfield-Gabrieli S.** (2014). Selective development of anticorrelated networks in the intrinsic functional organization of the human brain. Journal of Cognitive Neuroscience, 26: 501-513.
- 77) Arnold Anteraper S., Triantafyllou C., Sawyer A.T., Hofmann S.G., Gabrieli J.D., **Whitfield-Gabrieli S.** (2014). Hyper-connectivity of subcortical resting state networks in social anxiety disorder. Brain Connectivity, 4: 81-90.
- 78) Manning J., Hedden T., Wickens N., **Whitfield-Gabrieli S.**, Prelec D., Gabrieli J.D. (2015). Personality influences temporal discounting preferences: Behavioral and brain evidence. NeuroImage, 98:42-9
- 79) Mattfeld A., Gabrieli J., Biederman J., Spencer T, Brown A., Kotte A. , Kagan E., **Whitfield-Gabrieli S.** (2014). Brain differences between persistent and remitted attention deficit hyperactivity disorder. Brain, 137:2423-8

- 80) Fischer, A., **Whitfield-Gabrieli S.**, Roth R.M., Brunette, M.F., Green, A.I. (2014) Impaired functional connectivity of brain reward circuitry in patients with schizophrenia and cannabis use disorder: effects of cannabis and THC. Schizophrenia Research, 158:176-82
- 81) Christodoulou J.A., Del Tufo S.N., Lymberis J., Saxler P.K., Ghosh S.S., Triantafyllou C., **Whitfield-Gabrieli S.**, Gabrieli J.D. (2014) Brain bases of reading fluency in typical reading and impaired fluency in dyslexia. PLoS One, 9(7):e100552
- 82) Jacobs E., Holsen L., Lancaster K., Makris N., **Whitfield-Gabrieli S.**, Remington A., Weiss B., Buka S., Klibanski A., Goldstein J. (2015) 17 β -Estradiol differentially regulates stress circuitry activity in healthy and depressed women. Neuropsychopharmacology, 40:566-76.
- 83) Stoeckel L.E., Garrison K.A., Ghosh S., Wightton P., Hanlong C.A., Gilman J.M., Greer S., Turk-Browne N.B., deBettencourt M.T., Scheinost D., Craddock C., Thompson T., Calderon V., Bauerm C.C., George M., Breiter H.C., **Whitfield-Gabrieli S.**, Gabrieli J., LaConte S.M., Hirshberg L., Brewer J.A., Hampson M., Van Der Kouwe A., Mackey S., Evins A.E., (2014) Optimizing real time fMRI neurofeedback for therapeutic discovery and development. NeuroImage Clinical, 5:245-55
- 84) Seidman, L.J., Rosso, I.M., Thermenos, H.W., Makris, N., Juelich, R., Gabrieli, J., Faraone, S.V., Tsuang, M.T., **Whitfield-Gabrieli, S.** (2015) Medial temporal Lobe default mode functioning and hippocampal structure as vulnerability indicators for schizophrenia: An MRI study of non-psychotic adolescent first-degree relatives Schizophrenia Research, 159(2-3):426-34.
- 85) Fischer AS, **Whitfield-Gabrieli S.**, Roth RM, Brunette MF, Green AI. (2014) Response to "Cortico-accumbens circuitry in schizophrenia: Merely a reward system?" Schizophrenia Research, 158:176-82
- 86) Admon, R., Holsen, L.M., Aizley, H., Remington, A., **Whitfield-Gabrieli, S.**, Goldstein, J.M., Pizzagalli, D.A. (2015). Striatal hyper-sensitivity during stress in remitted individuals with recurrent depression. Biological Psychiatry, 78:67-76
- 87) Keller J.B., Hedden T., Gabrieli J., **Whitfield-Gabrieli S.** (2015). Anticorrelations between medial and lateral prefrontal cortex: association with executive function, aging, and individual differences. Cortex, 64:271-80
- 88) Gabrieli J., Ghosh S. **Whitfield-Gabrieli S.** (2015). Prediction as a humanitarian and pragmatic contribution from human cognitive neuroscience. Neuron, 85:11-26
- 89) Shafi, M.V., Klooster D., Barnard M.E., Romatoski K., Westover M.B., Christodoulou J., Gabrieli J., **Whitfield-Gabrieli S.**, Pascual-Leone A., Chang B.S., (2015) Physiological consequences of abnormal connectivity in a developmental epilepsy Annals of Neurology, 77:487-503
- 90) Goldstein JM, Lancaster K, Longenecker JM, Abbs B, Holsen LM, Cherkerzian S, **Whitfield-Gabrieli S**, Makris N, Tsuang MT, Buka SL, Seidman LJ, Klibanski A. (2015) Sex differences, hormones, and fMRI stress response circuitry deficits in psychoses. Psychiatry Res, 232(3):226-36.
- 91) Manning J., Reynolds, R., Saygin Z, Hofmann S.G., Pollack M., Gabrieli J, **Whitfield-Gabrieli S.** (2015). Altered Resting-State Functional Connectivity of the Frontal-Striatal Reward System in Social Anxiety. PLoS One, 0(4):e0125286
- 92) Stoeckel L.E., Chai X.J., Zhang J., **Whitfield-Gabrieli S.***, Evins AD* (2016). Lower gray matter density and functional connectivity in the anterior insula in smokers compared with never smokers. *Senior authors contributed equally. Addiction Biology. 21:972-81.
- 93) Uchida M., Biederman J., Gabrieli J., Miccoia, J., de Los Angeles C., Brown A., Kagana E., **Whitfield-Gabrieli S.** (2015). Emotion regulation ability varies in relation to intrinsic functional brain architecture. Soc Cogn Affect Neurosci. 10(12):1738-48
- 94) Chai X.J., Hirshfeld-Becker D., Doehrmann O., Leonard J., Biederman J., **Whitfield-Gabrieli S.**, and Gabrieli J. (2015) Functional and structural brain correlates of risk for major depression in children with familial depression. NeuroImage Clinical, 8:398-407
- 95) Demertzi A., Antonopoulos G., Heine L., Voss H.U, Crone J.S., de Los Angeles C., Bahri M.A., Di Perri C., Vanhauzenhuyse A., Charland-Verville V., Kronbichler M., Trinkka E., Phillips C., Gomez F.,

Tshibanda L., Soddu A., Schiff N.D., **Whitfield-Gabrieli S***, Laureys S* *Senior authors contributed equally. (2015). Intrinsic functional connectivity differentiates minimally conscious from unresponsive patients. Brain, 138:2619-31

- 96) **Whitfield-Gabrieli S.**, Ghosh S.S., Nieto-Castanon A, Saygin Z., Doehrmann O., Chai X., Reynolds G., Hofmann S.G., Pollack M.H., Gabrieli J. (2016) Brain connectomics predict response to treatment in social anxiety disorder. Molecular Psychiatry, 21:680-5
- 97) Savadjiev P., Seidman L., Thermenos H., Keshavan M, **Whitfield-Gabrieli S.**, Crow T., Kubicki M. (2016) Sexual dimorphic abnormalities in white matter geometry common to schizophrenia and non-psychotic high-risk subjects: Evidence for a neurodevelopmental risk marker? Human Brain Mapping. 37(1):254-61.
- 98) Kaiser RH, **Whitfield-Gabrieli S**, Dillon DG, Goer F, Beltzer M, Minkel J, Smoski M, Dichter G, Pizzagalli DA. (2016) Dynamic Resting-State Functional Connectivity in Major Depression. Neuropsychopharmacology, 41:1822-30.
- 99) Geddes M., Tie Y., Gabrieli J., McGinnis S., Golby A., **Whitfield-Gabrieli S.** (2016) Altered functional connectivity in peduncular hallucinosis with REM sleep behavior disorder. Cortex. 74:96-106.
- 100) Chai X.J., Hirshfeld-Becker D., Doehrmann O., Leonard J., Biederman J., Gabrieli J, **Whitfield-Gabrieli S.** (2016) Altered Intrinsic Functional Brain Architecture in Children at Familial Risk of Major Depression. Biological Psychiatry. 80:849-858.
- 101) Mattfeld, A.T., **Whitfield-Gabrieli, S.**, Biederman, J., Spencer, T., Brown, A., and Gabrieli, J.D.E. (2015) Dissociation of working memory impairments and attention-deficit/hyperactivity disorder in the brain. NeuroImage Clinical 10:274-82
- 102) Thermenos HW, Juelich RJ, DiChiara SR, Mesholam-Gately RI, Woodberry KA, Wojcik J, Makris N, Keshavan MS, **Whitfield-Gabrieli S**, Woo TW, Petryshen TL, Goldstein JM, Shenton ME, McCarley RW, Seidman LJ (2016). Hyperactivity of caudate, parahippocampal, and prefrontal regions during working memory in never-medicated persons at clinical-high risk for psychosis. Schizophr Res, 173:1-12
- 103) Jacobs EG, Weiss B, Makris N, **Whitfield-Gabrieli S**, Buka SL, Klibanski A, Goldstein JM. (2017) Reorganization of Functional Networks in Verbal Working Memory Circuitry in Early Midlife: The Impact of Sex and Menopausal Status. Cereb Cortex. 27:2857-2870
- 104) Mareckova K., Holsen, Admon R., **Whitfield-Gabrieli S.**, Sediman LJ, Buka SL, Klibanski A., J.M. Goldstein. (2016) Brain activity and connectivity in response to negative affective stimuli: Impact of dysphoric mood and sex across diagnoses. Human Brain Mapping. 37:3733-3744
- 105) Hung Y., Saygin Z., Biederman J., Hirshfeld-Becker D., Uchida M., Doehrmann OI, Han M., Chai X., Kenworthy T., Yarmak P., Gaillard S., **Whitfield-Gabrieli S.**, Gabrieli J. (2017) Impaired Frontal-Limbic White Matter Maturation in Children at Risk for Major Depression. Cerebral Cortex. 27:4478-4491
- 106) Jacobs EG, Weiss B., Makris N., **Whitfield-Gabrieli S.**, Buka S., Klibanski A., and Goldstein J. (2016) Impact of sex and menopausal status on episodic memory circuitry in early midlife. Journal of Neuroscience, 36:10163-73.
- 107) Ofen N, **Whitfield Gabrieli S**, Chai XJ, Schwarzlose RF, Gabrieli JD. (2017) Neural correlates of deception: lying about past events and personal beliefs. Soc Cogn Affect Neurosci. 12:116-127
- 108) Hahn T. Nierenberg A.A., **Whitfield-Gabrieli S.** (2017) Predictive Analytics in Mental Health: Applications, Guidelines, Challenges and Perspectives. Molecular Psychiatry. 22:37-43
- 109) Shafi MM, **Whitfield-Gabrieli S**, Chu CJ, Pascual-Leone A, Chang BS. (2016) A Multimodal Imaging- and Stimulation-based Method of Evaluating Connectivity-related Brain Excitability in Patients with Epilepsy. J Vis Exp. 117

- 110) Tao Q, Chan CC, Luo YJ, Li JJ, Ting KH, Lu ZL, **Whitfield-Gabrieli S**, Wang J, Lee TM. (2017) Prior Visual Experience Modulates Learning of Sound Localization Among Blind Individuals. Brain Topogr. 30:364-379.
- 111) Ellard KK, Barlow DH, **Whitfield-Gabrieli S**, Gabrieli JD, Deckersbach T. (2017) Neural Correlates of Emotion Acceptance Versus Worry or Suppression in Generalized Anxiety Disorder. Soc Cogn Affect Neurosci. 12:1009-1021
- 112) Centanni T, King L., Eddy M., **Whitfield-Gabrieli S.**, Gabrieli J. (2017) Development of sensitivity versus specificity for print in the visual word form area. Brain and Language. 170:62-70
- 113) Mareckova K, Holsen L, Admon R, **Whitfield-Gabrieli S**, Seidman LJ, Buka SL, Klibanski A, Goldstein JM. (2017) Neural - Hormonal Responses to Negative Affective Stimuli: Impact of Dysphoric Mood and Sex. Journal of Affective Disorders. 222:88-97
- 114) **Whitfield-Gabrieli, S.**, Fischer A.S., Roth, R.M. Green, A.I. (2018) Understanding marijuana's effects on functional connectivity of the default mode network in patients with schizophrenia and co-occurring cannabis use disorder: A pilot investigation. Schizophrenia Research. 194:70-77
- 115) Joshi G, Arnold Anteraper S, Patil K, Semwal M, Goldin R, Furtak S, Chai XJ, Saygin Z, Gabrieli JD, Biederman J, **Whitfield-Gabrieli S.** (2017) Integration and Segregation of Default Mode Network Resting-state Functional Connectivity in Transition-age Males with High-functioning Autism Spectrum Disorder: A Proof of Concept Study. Brain Connectivity. Brain Connect. 7:558-573
- 116) Eisenberg IW, Bissett PG, Canning JR, Dallery J, Enkavi AZ, **Whitfield-Gabrieli S**, Gonzalez O, Green AI, Greene MA, Kiernan M, Kim SJ, Li J, Lowe MR, Mazza GL, Metcalf SA, Onken L, Parikh SS, Peters E, Prochaska JJ, Scherer EA, Stoeckel LE, Valente MJ, Wu J, Xie H, MacKinnon DP, Marsch LA, Poldrack RA. (2018) Applying novel technologies and methods to inform the ontology of self-regulation. Behav Res Ther. 101:46-57
- 117) Arnold Anteraper S, Guell X, **Whitfield-Gabrieli S**, Triantafyllou C, Mattfeld AT, Gabrieli JD, Geddes MR. (2018) Resting-State Functional Connectivity of the Subthalamic Nucleus to Limbic, Associative, and Motor Networks. Brain Connect. 8:22-32.
- 118) Khan S., Hashmi A., Gollub R., **Whitfield-Gabrieli S.**, Mamashli F., Kitzbichler M., Bekhti Y., Bharadwaj K., Michmizos K., Garel K., Kong J., Vaina L., Rana K.D, Hamalainen M.S., Stufflebeam S. S., Kenet T. (2018) Maturation trajectories of cortical resting-state networks depend on the mediating frequency band. NeuroImage. 174:57-68
- 119) Fischer A. Camacho M., Ho T.C., **Whitfield-Gabrieli S.**, Gotlib, I.H. (2018) Neural Markers of Resilience in Adolescent Females at Familial Risk for Major Depressive Disorder. JAMA Psychiatry. 75:493-502
- 120) Chen X., Fan X., Hu Y., Zuo C., **Whitfield-Gabrieli S.**, Holt D., Gong Q., Yang Y., Pizzagalli D.A., Du F., and Ongur D. (2019) Regional GABA concentrations modulate inter-network resting- state functional connectivity. Cerebral Cortex. 29(4):1607-1618.
- 121) Threlkeld ZD, Bodien YG, Rosenthal ES, Giacino JT, Nieto-Castanon A, Wu O, **Whitfield-Gabrieli S**, Edlow BL. (2018) Functional Networks Reemerge During Recovery of Consciousness after Acute Severe Traumatic Brain Injury. Cortex. 106:229-308.
- 122) Arnold Anteraper S, Guell X, D'Mello A, Joshi N, **Whitfield-Gabrieli S**, Joshi G. (2019) Disrupted Cerebrocerebellar Intrinsic Functional Connectivity in Young Adults with High-functioning Autism Spectrum Disorder: A Data-driven, Whole-brain, High Temporal Resolution fMRI Study. Brain Connect. 9(1): 28-59.
- 123) Collin G, Seidman LJ, Keshavan MS, Stone WW, Qi Z, Shenton ME, Wang J, **Whitfield-Gabrieli S.** (2018) Abnormal modular organization of the functional connectome predicts conversion to psychosis in clinical high-risk youth. Molecular Psychiatry. In Press.

- 124) Hirshfeld-Becker, D., Gabrieli, J.D., Shapero, B., Biederman, J., **Whitfield-Gabrieli, S.**, Chai, X.J. (2019) Intrinsic Functional Brain Connectivity Predicts Onset of Major Depression Disorder in Adolescence: A Pilot Study. Brain Connect. In Press.
- 125) Qi, Z., Han, M., Wang, Y., de los Angeles, C., Liu, Q., Garel, K., Chen, E.S., **Whitfield-Gabrieli, S.**, Gabrieli, J.D.E., Perrachione, T.K. (2019) Speech processing and plasticity in the right hemisphere predict variation in adult foreign language processing. NeuroImage. 192:76-87.
- 126) Shapiro, B.G., Chai, X.J., Vangel, M., Biederman, J., Hoover, C.S., **Whitfield-Gabrieli, S.**, Gabrieli, G.D.G., Hirshfeld-Becker, D. (2019) Neural markers of depression risk predict the onset of depression. NeuroImage. 285:31-39.
- 127) Tang, Y., Wang, J., Zhang, T., Xu, L., Qian, Z., Cui, H., Tang, X., Li, H., **Whitfield-Gabrieli, S.**, Shenton, M.E., Seidman, L.J., McCarley, R.W., Keshvan, M.S., Stone, W.S., Wang, J., Niznikiewicz, M.A. (2019) P300 as an index of transition to psychosis and of remission: Data from a clinical high risk for psychosis study and review of literature. Schizo Res. In Press.

Book Chapters

- 128) Aron, A., **Whitfield-Gabrieli, S.**, Lichty, W. (2007). Whole Brain Correlations: Examining similarity across conditions of overall patterns of neural activation in fMRI, pp 397-403. In Sholmo Sawilowsky (Ed), Real Data Analysis Quantitative Methods in education and the behavioral sciences. Oxford University Press.
- 129) Demertzi A. & **Whitfield-Gabrieli S.** (2015) Intrinsic brain activity and consciousness. The Neurology of Consciousness 2nd Edition.

In Progress (Written (To be Submitted within <2 weeks), Submitted, In Revision, Revised)

- 130) **Whitfield-Gabrieli S.**, Ghosh S., Nieto-Castanon A., Gollub R.L., (Revision) Artifact Detection, Rejection and Quality Assurance of fMRI Data Increase Accuracy in Task Activation and Functional Connectivity Studies. NeuroImage.
- 131) **Whitfield-Gabrieli S.**, Demertzi A., de los Angeles, C Nieto-Castanon A, Laureys S. (Submitted) Default Mode Network Anticorrelations Predict Clinical Outcome in Patients with Disorders of Consciousness
- 132) Vázquez P., **Whitfield-Gabrieli S.**, Bauer C., Barrios F.A., (Revision) Brain functional connectivity of hypnosis without target suggestion: An intrinsic hypnosis rs-fMRI study. Cortex.
- 133) Tang Y, Pasternak O., Kubicki M., Rathi Y., Zhang T., Wang J., Li H., Xu L., Qian Z., Zhu S., **Whitfield-Gabrieli S.**, McCarley R., Shenton M., Wang J., Seidman L.J. (Submitted) Extracellular and Brain Tissue Related Abnormalities in Subjects at Clinical High Risk for Psychosis.
- 134) del Re E., Stone B., Bouix S., Somes N., Konishi J., Zhang T., Tang Y., Lyall A., Pasternak O., Kikinis Z., Fitzsimmons J., Li H., **Whitfield-Gabrieli S.**, Keshavan M., Seidman L., McCarley R., Wang J., Shenton M., and Niznikiewicz M. (Submitted) Converters And Non-Converters: Distinguishing Language Network Abnormalities Of Cortical Thickness
- 135) Bauer, C., Caballero, C., Scherer, E., West, M., Gabrieli J., **Whitfield-Gabrieli, S.** (Submitted) Meditation, resting state connectivity, and sustained attention: An RCT in middle school children.
- 136) Bauer C, Okano K, Nestor P, Del Re E, Gosh S, Niznikiewicz M, **Whitfield-Gabrieli S.** (Submitted) Real time fMRI feedback in patients with schizophrenia reduces auditory hallucinations.
- 137) **Whitfield-Gabrieli S.**, Wendelken C., Cutting L., Bunge S.A. (Revision) The Intrinsic Functional

Architecture of the Brain Predicts Subsequent Change in Behavior during Typical Development. JAMA Psychiatry.

Invited Presentations

- 1) NAPLS Scientific Symposium: Brain Plasticity, Risk and Prevention of Schizophrenia, October 2009, Boston, MA, USA.
- 2) National Academy of Sciences, October 2009, Beijing, China International Symposium on Language, Culture and the Brain, November 2009, University of Hong Kong, Hong Kong.
- 3) Clinical Research Training Program Research Seminar, Judge Baker Children's Hospital, May 2009, Boston, MA, USA.
- 4) Harvard Medical School and McLean Hospital: Psychiatry, June 2009, Fairmont Copley Plaza Hotel, Boston MA, USA.
- 5) NITRC Grantee meeting, June 2009, San Francisco, CA, USA.
- 6) Second Biennial International Conference on Resting-State Connectivity, September 2010, Milwaukee, Wisconsin, USA.
- 7) NeuroTalk, From Nervous Functions to Treatment, June 2010, Singapore.
- 8) The 7th International Conference on Cognitive Science, Functional and Effective Connectivity in Neuropsychiatric Disorders, August 2010, Beijing, China.
- 9) Society of Biological Psychiatry: Symposium: Inner-Twitter: Altered Functional Connectivity in Schizophrenia and Bipolar Disease, May 2011, San Francisco, CA, USA.
- 10) International Symposium on Brain Imaging, New Frontiers on Data Analysis, South China Normal University, July 10th 2011, Guangzhou, China.
- 11) 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society
- 12) (EMBC) Brain Networks, Sep 1st 2011, Marriott, Boston, USA.
- 13) Martinos Center known as BANG! (Brain Aging Neuroimaging Group) Functional Connectivity MRI Promises and Perils, Dec 16th 2011, MGH, USA.
- 14) McLean Neuroimaging Center, Nov 28th 2011, McLean Hospital, USA.
- 15) 2nd International Workshop on Brain, Cognition and Learning, June 8th 2012, Beijing, China.
- 16) 3rd Biennial Schizophrenia International Research Conference, April 15th 2012, Florence, Italy.
- 17) Neuroimaging & Neuropsychology group at VA Boston, April 19th 2012, Boston MA USA.
- 18) NIMH RDoC workshop on arousal/regulatory systems, June 24-26, 2012, Washington, USA.
- 19) 3rd Biennial Conference on Resting State Brain Connectivity, September 6th 2012, Magdeburg, Germany.
- 20) Resting State Functional Connectivity, November 3-5, 2012, Hong Kong University, Hong Kong.
- 21) MRRC Speaker Series, Yale University, February 14th 2013, New Haven, USA.
- 22) Harvard Catalyst: Advanced Imaging: Neuroscience Imaging for Clinical/Translational Research, April 8-10 2013, Cambridge, USA.
- 23) Radcliffe rtfMRI NFB Symposium: July 11th 2013, Harvard University, Cambridge, USA.
- 24) UCSF Memory and Aging Center, September 6th 2013, San Francisco, USA.
- 25) Biological Psychiatry, May 8th 2013, New York, USA.
- 26) NeuroImaging Workshop (MLINI): Machine Learning and Inference in NeuroImaging NIPS: Neural Information Processing Systems, December 9th 2013, Nevada, USA.
- 27) American Psychiatric Association's 167th Annual Meeting (APA) May 5th 2014, New York, USA.
- 28) Fourth Biennial Conference on Resting State Connectivity, September 12th 2014, Cambridge, USA.
- 29) International Neuropsychological Society Meeting, February 4th 2015, Denver Colorado, USA.
- 30) Harvard Catalyst Advanced Imaging: Neuroscience Imaging for Clinical/Translational Research April 15th 2015, Cambridge, USA.
- 31) 5th Annual Interdisciplinary Symposium on Decision Neuroscience, May 15th 2015 MIT,

- Cambridge, USA.
- 32) Association for Psychological Science (APS), May 21st 2015, New York, USA.
 - 33) Organization for Human Brain Mapping (OHBM): *Keynote Lecture*, June 16th 2015, Honolulu, Hawaii, USA.
 - 34) Autism Spectrum Disorder Across the Life Span: Evidence Based Clinical Update from Neurobiology to Therapeutics, July 11th 2015, Boston, MA, USA.
 - 35) Universidad Nacional Autonoma de Mexico (UNAM), September 18th 2015, Juriquilla, Queretaro Mexico.
 - 36) Visual Brain Core (VBC) Seminar Series, October 2nd 2015, University of Alabama at Birmingham, USA.
 - 37) Society for Neuroscience (SfN): October 18th 2015, Chicago, USA.
 - 38) Structural and Functional Connectivity via MRI, October 28th 2015, MGH, Charlestown, USA.
 - 39) McLean Imaging Center Speaker Series, November 4th 2015, McLean Hospital, Belmont, USA.
 - 40) Science of Behavior Change, November 23rd 2015, Stanford University, Stanford, CA, USA.
 - 41) Brainmap Seminar Series, Feb 17th 2016, MGH, Charlestown, MA, USA.
 - 42) 3rd Whistler Workshop on Brain Function, March 6th 2016, British Columbia, Canada.
 - 43) University of Georgia Seminar Series April 2016, *Franklin Foundation Distinguished Lecturer*, Athens, Georgia, USA.
 - 44) Keynote Lecture Hong Kong University (HKU) Conference, June 18th 2016, Hong Kong.
 - 45) 18th World Congress of Psychophysiology, September 4th 2016, Havana, Cuba.
 - 46) Neuroscience Institute, GIGA , September 19th 2016, Liege, Belgium.
 - 47) 5th Biennial Conference on Resting State and Brain Connectivity, September 22nd 2016, Vienna, Austria.
 - 48) Machine Learning Symposium, September 24th 2016, Vienna, Austria.
 - 49) Association for Behavioral and Cognitive Therapies (ABCT), October 27th 2016, New York, USA.
 - 50) Boston Neuroimaging & Neuropsychology Lecture Series, November 17th 2016, Boston, MA, USA.
 - 51) fMRI_25 Symposium at MGH, December 6th 2016, Boston, MA, USA.
 - 52) Autism Spectrum Disorders Across the Life Span, January 21st 2017, Westin Copley Place, Boston, MA. USA.
 - 53) Shenton Seminar Series, February 23rd 2017, Harvard, Boston, MA.
 - 54) Baycrest Rotman Research Institute conference, March 21st 2017, Toronto, Canada.
 - 55) SRCD Biennial Meeting, April 8th 2017, Austin Texas, USA.
 - 56) Neuroscience Seminar Series @ Georgetown University, May 9th 2017, Washington DC, USA.
 - 57) MIT Speaker Series on Mindfulness Research, October 6th 2017, MIT, Cambridge, USA.
 - 58) MRRC Seminar Series, Yale University, Feb 8th 2018, New Haven, USA.
 - 59) Schizophrenia International Research Society Meeting, April 4th 2018, Florence, Italy.
 - 60) Brain dynamics and parallel computation, March 25th 2018 Kyoto University, Kyoto Japan.
 - 61) The Life of an Academic (Panel Discussion), April 13th 2018, MGH, Charlestown, USA.
 - 62) Using Neuroimaging to Generate Predictive Models for Dimensional Psychiatry, Society of Biological Psychiatry's 73rd Annual Scientific Convention, May 10-12, 2018, New York, USA.
 - 63) Second Annual Shanghai Forum of Early Phase of Psychosis Identification and Intervention, May 18th 2018, Shanghai, China.
 - 64) National Alliance of Mental Health: NAMI, June 5th 2018, Boston, USA
 - 65) ISMRM-ESMRMB Conference “Connectomes related to Psychiatric Diseases” June 20th, 2018, Paris, France.
 - 66) Sixth Biennial Conference on Brain Connectivity, September 26th, 2018, Montreal, Canada

- 67) Chair: The future of big data and machine learning in psychiatry: technologies, large-scale initiatives and clinical application, ECNP, October 8th, 2018, Barcelona, Spain.
- 68) 31st European College of Neuropsychopharmacology (ECNP) Conference, group-based inference to personalized medicine, October 7th, 2018, Barcelona, Spain.
- 69) DBSA (Depression Bipolar Support Alliance) Speaker Series, November 14th 2018, McLean Hospital, Belmont, MA.
- 70) Clinical Psychology Colloquium Series, November 29th 2018, Yale University, New Haven, USA.
- 71) Brain Imaging Research Center (BIRC) Lecture Series, January 30, 2019, UConn, CT, USA:
Distinguished Lecturer
- 72) Conference on real-time fMRI Neurofeedback, March 28th, 29th 2019, NIH, Washington, USA.
- 73) 74th Annual Meeting of Biological Psychiatry, May 17th 2019,
“Negative emotion and threat: developmental and lifespan frameworks, molecular techniques and multimodal assays.” *Plenary Lecture: The adolescent brain.*

Current Research Contracts and Grants

- 10/1/2015 - 05/31/2019
NIH: U01MH108168-01
Connectomes Related to Anxiety and Depression in Adolescents
Role: PI: Whitfield-Gabrieli
- 4/1/18-3/31/22
NIH R61/R33: RFA-MH-16-406 1R61MH113751-01A1
Multiple PIs: Whitfield-Gabrieli, Niznikiewicz
Real-time fMRI Neurofeedback as a Tool to Mitigate Auditory Hallucinations in Patients with Schizophrenia
Role: PI
- 9/12/16 – 6/30/2021
NIH: RO1 MH11148-01
PI: Larry Seidman MIT Subcontract PI: Whitfield-Gabrieli
A Psychobiological Follow-up Study of Transition from Prodrome to Early Psychosis
Role: MIT PI
- 4/1/18 – 4/1/2019
Sunovion
PI: Whitfield-Gabrieli
Neuroimaging Analysis of Clinical Trial SEP856
- 10/1/2016 - 05/31/2020
NIH: 5UH2DA041713-02
PIs: Poldrack & Marsch
Applying Novel Technologies and Methods to Inform the Ontology of Self-Regulation
Role: MIT Consultant

- 9/1/2013 – 9/1/2018
NIH R01 4R01DA034699-03
PI: Alan Green
Cannabis, schizophrenia and reward: self-medication and agonist treatment
Role: MIT Consultant

