Curriculum Vitae Derek M. Smith, Ph.D. Phone: 484-547-8050 Email: dsmit358@jhmi.edu	
Education Temple University Philadelphia, Pennsylvania B.A. Psychology, minors in Cognitive Neuroscience & Economics	2007-2011
Georgia Institute of Technology Atlanta, Georgia M.S. Psychology	2013-2016
Georgia Institute of Technology Atlanta, Georgia Ph.D. Psychology (Cognition and Brain Science, minor in Quantitative	2016-2019 Methods)
Northwestern University Evanston, Illinois Postdoctoral Scholar	2019-2021
Johns Hopkins University – School of Medicine Baltimore, Maryland Research Associate	2021-Present
Research Experience Undergraduate Research Assistant Fall 2008, Spring 2009 Department Temple University, Philadelphia, PA Advisor: Dr. Philip Hineline	of Psychology
Undergraduate Research Assistant Summer 2010, Spring 2011 Departn Temple University, Philadelphia, PA Advisors: Dr. Jason Chein & Dr. Robert Weisberg	nent of Psychology
Volunteer Research Assistant Summer 2012, Spring 2013 Department of University of the Sciences in Philadelphia, Philadelphia, PA Advisor: Dr. Stephen Moelter	of Psychology
Graduate Research Assistant Summer 2013, Spring 2019 School of Psy Georgia Institute of Technology, Atlanta GA Advisor: Dr. Eric Schumacher	rchology
Postdoctoral Researcher Spring 2019, Fall 2021 Department of Psychol	logy

Postdoctoral Researcher Spring 2019, Fall 2021 Department of Psychology Northwestern University, Evanston, Illinois Advisor: Dr. Caterina Gratton

Publications

Schumacher, E. H., Cookson, S. L., **Smith, D. M.**, Nguyen, T. V., Sultan, Z., Reuben, K. E., & Hazeltine, E. (2018). Dual-task processing with identical stimulus and response sets: assessing the importance of task representation in dual-task interference. *Frontiers in Psychology*, 9.

Smith, D. M., Zhao, Y., Keilholz, S. D., & Schumacher, E. H. (2018). Investigating the intersession reliability of dynamic brain-state properties. *Brain Connectivity*, 8(5), 255-267.

Bezdek, M. A., Godwin, C. A., **Smith, D.M.**, Hazeltine E., Schumacher, E. H. (2019). How conscious and unconscious aspects of task representations affect dynamic behavior in complex situations. *Psychology of Consciousness: Theory, Research, and Practice*

Hao, Y., Yao, L., **Smith, D.M.**, Sorel, E., Anderson, A.K., Schumacher, E.H., & Evans G.W. (2019). Prefrontal-posterior coupling mediates transitions between emotional states and influences executive functioning. *Scientific Reports*, 9(1), 8252.

Smith, D. M., Dykstra, T., Hazeltine, E., & Schumacher, E. H. (2020). Task representation affects the boundaries of behavioral slowing following an error. *Attention, Perception, & Psychophysics*, 1-12.

Gratton, C., **Smith, D. M.**, & Dorn, M. (2020). Digging deeper to chart the landscape of human brain development. *Neuron*, *106*(2), 209-211.

Smith, D. M., Perez, D. C., Porter, A., Dworetsky, A., & Gratton, C. (2021). Light through the fog: using precision fMRI data to disentangle the neural substrates of cognitive control. *Current Opinion in Behavioral Sciences*, 40, 19-26.

Dykstra, T., **Smith, D.M.**, Schumacher, E.H., & Hazeltine, E. (*in press*). Measuring task structure with transitional response times: Task representations are more than task sets. *Psychonomic Bulletin & Review*.

Smith, D.M., & Terhune D.B. (*in press*). Pedunculopontine-induced cortical decoupling as the neurophysiological locus of dissociation. *Psychological Review*.

Preprints

Dworetsky, A., Seitzman, B. A., Adeyemo, B., **Smith, D. M.**, Petersen, S. E., & Gratton, C. (2021). Two common and distinct forms of variation in human functional brain networks. bioRxiv.

Ladwig, Z., Seitzman, B.A., Dworetsky, A., Yu, Y., Adeyemo, B., **Smith, D.M.**, Petersen, S.E., Gratton C. (2022). BOLD cofluctuation 'events' are predicted from static functional connectivity. bioRxiv.

Smith, D. M., Kraus, B. T., Dworetsky, A., Gordon, E. M., & Gratton, C. (2021). Brain hubs defined in the group do not overlap with regions of high inter-individual variability. bioRxiv.

Manuscripts in Preparation

Yu, Y., Gratton, C., Smith, D.M. (in prep). From correlation to communication.

Poster Presentations

Smith, D.M., Godwin, C.A., Grooms, J.K., Keilholz, S.D., & Schumacher, E.H. (2015, March). Network dynamics of cognitive control. Cognitive Neuroscience Society, San Francisco, CA.

Godwin, C.A., Grooms, J.K., **Smith, D.M.**, Keilholz, S.D., & Schumacher, E.H. (2015, March). Dynamics of memory encoding: Large-scale brain network fluctuations during prestimulus time windows. Cognitive Neuroscience Society, San Francisco, CA.

Smith, D.M., Zhao, Y., Godwin, C.A., Grooms, J.K., Yousefi, B., Keilholz, S.D., & Schumacher, E.H. (2016, April). Dynamic network connectivity and cognitive control. Cognitive Neuroscience Society, New York, NY.

Smith, D.M., Zhao, Y., Yousefi, B., Keilholz, S.D., & Schumacher, E.H. (2017, March). The reliability of brain state properties. Cognitive Neuroscience Society, San Francisco, CA.

Abbas, A., **Smith D.M.**, Schumacher E., & Keilholz S. (2017, June). Quasiperiodic patterns in the brain contribute to functional connectivity in the default mode Network. Organization for Human Brain Mapping, Vancouver, BC.

Smith, D.M., & Schumacher E.H. (2018, March). Activation and connectivity at the decision and execution phases of a voluntary task switching paradigm. Cognitive Neuroscience Society, Boston, MA.

Yousefi, B., **Smith D.M.**, Schumacher E., & Keilholz S. (2018, March). Quasi-periodic patterns of intrinsic brain activity: stability and individual-specificity. Cognitive Neuroscience Society, Boston, MA.

Hao, Y., Yao, L., **Smith, D.M.**, Sorel, E., Anderson, A.K., Schumacher, E.H., Evans, G.W. (2018, November). Neural instantiation of regulatory processes for dynamic emotional stimuli. Society for Neuroscience, San Diego, CA.

Smith, D.M., Dykstra, T., Hazeltine, E., Schumacher, E.H. (2018, November). Task files, post error slowing, & the flexible boundaries of cognitive control. Psychnomic Society, New Orleans, LA.

Smith, D.M., Brown, T.I., Schumacher, E.H. (2020 May). Network coupling & congruency status. Cognitive Neuroscience Society, Virtual Meeting.

Smith, D.M., Kraus, B.T., Dworetsky, A., Gordon, E.M., Gratton C. (2021, March). Interindividual variation in connector hubs. Cognitive Neuroscience Society, Virtual Meeting.

Yu, Y., **Smith, D.M.**, Gratton, C. (2021, June). From correlation to communication: decomposing functional connectivity changes. Organization for Human Brain Mapping, Virtual Meeting.

Xu N., **Smith, D.M.,** Jeno, G., Seeburger, D.T., Schumacher, E.H., Keilholz, S.D. (2021, June). Quasi-periodic patterns and BOLD response entrained by visual stimulation in the human brain. Organization for Human Brain Mapping, Virtual Meeting. **Smith, D.M.**, Kraus, B.T., Dworetsky, A., Gordon, E.M., Gratton, C. (2021, November). Bridges or mirages connector hubs and inter-subject variation in connectivity profiles. Society for Neuroscience, Virtual Meeting.

Conference Presentations

Reliability and Intra-Individual Variability of Congruency Effects. (May 2021). A Bunch of Control Databilitzes (ABCD)

Teaching Experience

all 2015
pring 2017
pring 2017
pring 2018
all 2019
pring 2021

Manuscript Reviewer (dates vary)

Behavioral Research Methods Frontiers in Psychology Network Neuroscience NeuroImage

Awards

Neuroscience of Human Cognition T32 (T32NS047987)	2020-2021
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Professional Memberships

Cognitive Neuroscience Society	
Psychonomic Society	
Society for Neuroscience	

Skills

AFNI, E-Basic (E-Prime), EQS, GIFT, Inquisit, IRTPRO, MATLAB, Microsoft Office, R, SPSS

2014-Present 2015-Present 2019-Present

Fields of Interest

Cognitive Control Consciousness Cingulo-Opercular Network Individual Differences in Cognitive Abilities Sleep-Wake Cycles & Individual Differences in Cognition Predictive Coding Dynamic Functional Connectivity Metacognition