

Kevin Jarbo M.S.

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Carnegie Mellon University
Dept. of Psychology, Baker Hall 436D

Education

Ph.D. Graduate Student, Cognitive Psychology

Carnegie Mellon University (August 2013 – Anticipated graduation May 2018)

M.S. Psychology

Carnegie Mellon University (December 2015)

B.S. Biological Sciences

University of Pittsburgh (December 2006)

Professional Experience

2013-Present Graduate Student Researcher, Psychology & Center for the Neural Basis of Cognition (CNBC), Carnegie Mellon University

2012-2013 Clinical Research Assistant, Surgical Neuroanatomy Lab, UPMC

2010-2013 Clinical Research Assistant, Department of Radiology, UPMC

2006-2013 Assistant Researcher, LRDC, University of Pittsburgh

Academic Honors and Fellowships

2016 Kavli Summer Institute in Cognitive Neuroscience, UC Davis & Santa Barbara

2016 Summer Seminars in Neuroscience and Philosophy Fellow, Duke University

2015-Present Multimodal Neuroimaging Training Program Fellow, CNBC

2014 NSF Graduate Research Fellowship Program, Honorable Mention

2013-2015 NIH Behavioral Brain Research Training Fellow, Carnegie Mellon University

2013 NSF Graduate Research Fellowship Program, Honorable Mention

2002-2006 Helen Faison Full Academic Scholar, University of Pittsburgh

Awards and Prizes

2015 McClelland Prize for Outstanding Graduate Student Paper, CNBC

Peer Reviewed Publications

2016

“Sensory uncertainty impacts risk aversion during spatial decisions” **Jarbo, K.**, Flemming, R., Verstynen, T. D. (under revision for *The Journal of Neurophysiology*)

“Estimation of Voxelwise Effective Connectivities: Applications to High Connectivity Sub-Regions within Hippocampal and within Corticostriatal Networks” Sanchez-Romero, R., Ramsey, J. D., Liang, J. C., **Jarbo, K.**, Glymour, C. (under revision).
bioRxiv preprint: <http://biorxiv.org/content/early/2016/02/08/039057>

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2015

“Longitudinal evaluation of corticospinal tract in patients with surgically resected brainstem cavernous malformations using High Definition Fiber Tractography and diffusion connectometry analysis: preliminary experience” Faraji, A. H., Abhinav, K., **Jarbo, K.**, Yeh, F., Shin, S. S., Pathak, S., Hirsch, B. E., Schneider, W., Fernandez-Miranda, J. C., Friedlander, R. M. *Journal of Neurosurgery*. E-Pub ahead of print: 1-12 <http://dx.doi.org/10.3171/2014.12.JNS142169>

“Quantifying White Matter Structural Integrity with High Definition Fiber Tracking in Traumatic Brain Injury” Presson, N., Krishnaswamy, D., Wagener, L., Bird, W., **Jarbo, K.**, Pathak, S., Puccio, A. M., Borasso, A., Benso, S., Okonkwo, D. O., Schneider, W. S. *Journal of Military Medicine*. 180(35): 109-121. <http://dx.doi.org/10.7205/MILMED-D-14-00413>

“Converging structural and functional connectivity of orbitofrontal, dorsolateral prefrontal, and posterior parietal cortex in the human striatum” **Jarbo, K.** & Verstynen, T. *Journal of Neuroscience*. 35(9): 3865-3878. <http://doi:10.1523/JNEUROSCI.2636-14.2015>

2012

“High-Definition Fiber Tractography of the Human Brain: Neuroanatomical Validation and Neurosurgical Applications” Fernandez-Miranda, J. C., Pathak, S., Engh, J., **Jarbo, K.**, Verstynen, T., Wang, Y., Boada, F., Schneider, W., Friedlander, R. (2012) *Neurosurgery*. 71(2): 430-53. <http://dx.doi.org/10.1227/NEU.0b013e3182592faa>

“High Definition Fiber Tracking for Assessment of Neurological Deficit in a Case of Traumatic Brain Injury: Finding, Visualizing, and Interpreting Small Sites of TBI Damage” Shin, S., Verstynen, T., Pathak, S., **Jarbo, K.**, Hricik, A., Maserati, M., Beers, S.R., Puccio, A. M., Okonkwo, D., Schneider, W. (2012) *Journal of Neurosurgery*. 116: 1062-9. <http://dx.doi.org/10.3171/2012.1.JNS111282>

“Microstructural organizational patterns in the human corticostriatal system” Verstynen, T., Badre, D., **Jarbo, K.**, Schneider, W. (2012) *Journal of Neurophysiology*. <http://dx.doi.org/10.1152/jn.00995.2011>

"In vivo quantification of global connectivity of the human corpus callosum" **Jarbo, K.**, Verstynen, T., Schneider, W. (2012) *NeuroImage*. 59: 1988-96. <http://dx.doi.org/10.1016/j.neuroimage.2011.09.056>

2011

"In vivo assessment of microstructural topographies in the human corticospinal pathways" Verstynen, T., **Jarbo, K.**, Pathak, S., Schneider, W. (2011) *Journal of Neurophysiology*. 105: 336-46. <http://dx.doi.org/10.1152/jn.00698.2010>

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Invited Talks

- 2015 *Center for the Neural Basis of Cognition Annual Retreat McClelland Prize Talk*
“Converging frontal and parietal pathways in the human striatum”
- 2015 *Carnegie Mellon University (03-763): Advanced Systems Neuroscience*
“Converging frontal and parietal pathways in the human striatum”

Teaching Experience

- 2016 *Carnegie Mellon University (08-211): Cognitive Psychology*
Duties: Teaching assistant, lectured, grading, and office hours
- 2015 *Carnegie Mellon University (08-102): Introduction to Psychology*
Duties: Teaching assistant, led recitation sections, lectured, grading, and office hours
- 2013 *University of Pittsburgh (PSY 2471): Topics in Psychology: Brain Connectivity Mapping*
Duties: Guest lecturer, guided laboratory tutorials, lesson planning, and grading
- 2012 *University of Pittsburgh (PSY 2471): Topics in Psychology: Mapping Brain Connectivity*
Duties: Guest lecturer, guided laboratory tutorials, lesson planning, and grading

Professional Affiliations

Cognitive Neuroscience Society
Society of Neuroscience

American Association for the Advancement of Science
Association for Psychological Science

Ad-Hoc Reviewer

Neuropsychologia *Movement Disorders*

Conference Presentations

“Highway from the Danger Zone: Interactions between uncertainty and cost in spatial estimation” **Jarbo, K.**, Flemming, R., Verstynen, T. Abst. Society for Neuroscience 2014

“Convergence of posterior parietal, orbitofrontal, and lateral prefrontal inputs into the human striatum” **Jarbo, K.** & Verstynen, T. Abst. Cognitive Neuroscience Society 2014, CNBC 20th Anniversary, Pittsburgh MR Imaging Retreat 2014

“High Definition Fiber Tracking of Blast mTBI: Making the Invisible Wounds of War Visible with Patient-Targeted Treatment” Schneider, W., Okonkwo, D. O., Presson, N., **Jarbo, K.**, Puccio, A. M., Borasso, A., Beers, S., Morrow, L., Pathak, S. Abst. Military Health System Research Symposium 2014

“Training and Support Programs to Learn, Implement, and Support HDFT Analysis and How to Join the Group of Intake Sites” Schneider, W., Okonkwo, D. O., **Jarbo, K.**,

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Wagener, L., Bird, W., Presson, N., Braun, E., Chmura, J. Abst. Military Health System Research Symposium 2014

“High definition fiber tracking of corpus callosum fiber pathways” **Jarbo, K.**, Verstynen, T., Schneider, W. Abst. Cognitive Neuroscience Society 2011

“High definition fiber tracking in neurosurgery & traumatic brain injury” Pathak, S., Verstynen, T., **Jarbo, K.**, Schneider W., Fernandez-Miranda, J. C. Abst. Cognitive Neuroscience Society 2011

“Individual differences in adult second language vocabulary learning” Phillips, A., **Jarbo, K.**, Tokowicz, N. Abst. Eighth International Symposium on Bilingualism 2011

“Clinical Quality Fiber Tracking and Connectome Mapping in Neurosurgery & Traumatic Brain Injury” Schneider, W., **Jarbo, K.**, Shin, S., Verstynen, T., Pathak, S., Fernandez-Miranda, J. C., Okonkwo, D., Boada, F., Abst. Human Brain Mapping 2011

“High definition fiber tracking of corticostriatal projection subfields in vivo” Verstynen, T., **Jarbo, K.**, Phillips, J., Pathak, S., Schneider, W. Abst. Cognitive Neuroscience Society 2011

“The generation effect applied to second language vocabulary learning” Tokowicz, N., & **Jarbo, K.** Abst. Fiftieth Annual Meeting of the Psychonomic Society 2009

“They Were Trained, But They Did Not All Learn: Individual Differences in Uptake of Learning Strategy Training” Moss, J., Schunn, C., Van Lehn, K., Schneider, W., McNamara, D. S., & **Jarbo, K.** In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), Proceedings of the Thirtieth Annual Conference of the Cognitive Science Society (p.1389). Cognitive Science Society 2008