# Samuel Garrett Thorpe

Postdoctoral Researcher
Dept. of Human Development & Quantitative Methodology
University of Maryland Child Development Laboratory
Email: samuelgthorpe@gmail.com

## Publications

Links to selected works highlighted in blue

Thorpe S, Cannon E, Fox N (2014). Spectral and source structural development of mu and alpha rhythms from infancy through adulthood. Journal of Clinical Neurophysiology. In Press.

Yoo K, Cannon E, Thorpe S, Fox N (2015). Perception of complex actions and EEG desynchronization: A comparison between 9 and 12 month-olds. British Journal Of Developmental Psychology (In Press).

Coudé G, Vanderwert R, Thorpe S, Festante F, Bimbi M, Fox N, Ferrari P (2014). Frequency and topography in monkey electroencephalogram during action observation: possible neural correlates of the mirror neuron system. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 369(1644), 20130415.

Srinivasan R, Thorpe S, Nunez P (2013). Top-down influences on local networks: basic theory with experimental implications. *Frontiers in Computational Neuroscience*, 7.

Thorpe S, D'Zmura M, Srinivasan R (2012). Lateralization of Frequency-Specific Networks for Covert Spatial Attention to Auditory Stimuli. *Brain Topography*, 25(1): 39-54.

Deng S, Winter W, Thorpe S, Srinivasan R (2012) Improved Surface Laplacian estimates of cortical potential using realistic models of head geometry. *IEEE transactions on Biomedical Engineering,* 59(11 ): 2979-2985.

Thorpe S, Deng S, Garcia J, Lee R, Wang M, Srinivasan R (2011). Spatial attention enhances steady-state visual evoked responses in the gamma band. *International Journal of Bioelectromagnetism,* 13(4): 233-238.

Srinivasan R, Thorpe S, Deng S, Lappas T, and D'Zmura M (2009) Decoding attentional orientation from EEG spectra. Jacko JA (Ed.), *Human-Computer Interaction, Part I,HCII 2009, LNCS*, 5610 (Berlin: Springer) 176-183.

D'Zmura M, Deng S, Lappas T, Thorpe S, Srinivasan R (2009) Towards EEG sensing of imagined speech. Jacko JA (Ed.), *Human-Computer Interaction, Part I,HCII 2009, LNCS*, 5610 (Berlin: Springer) 40 – 48.

Thorpe S, Nunez P, Srinivasan R (2007). Identification of wave-like spatial structure in the SSVEP: Comparison of simultaneous EEG and MEG. *Journal of Statistics in Medicine*, 26:3911–3926.

## Works in Progress

Bowman L, Thorpe S, Cannon E, Fox N (2014). Action mechanisms for social cognition: Behavioral and neural correlates of developing theory of mind. Under Review.

Filippi C, Cannon E, Fox N, Thorpe S, Ferrari P, Woodward A (2014). Neural mirroring predicts goal analysis in 7 month-old infants. Under Review.

Kiernan L, Thorpe S, Brandone A, Wellman A (2014). Neural correlates of implicit false-belief reasoning and relations to explicit theory-of-mind development in preschool children. Manuscript in preparation.

Thorpe S, Srinivasan R (2015). Effects of Top-Down Spatial Attention signals on gamma-band steady-state evoked responses. Manuscript in preparation.

Thorpe S, Bowman L, Fox N (2015). Developmental integration of functional mu networks with age. Manuscript in preparation.

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## Academic Presentations

Thorpe S, Cannon E, Fox N (2014, November). Development of functional mu-rhythm from infancy through adulthood, and relations to upper/lower alpha. Poster presented at the annual meeting of the *Society for Neuroscience,* Washington DC.

Thorpe S, Coudé G, Festante F, Bimbi M, Vanderwert R, Ferrari P, Fox N (2013, November). Modulation of band-specific macaque EEG rhythms during observation of human reaching/grasping. Poster presented at the annual meeting of the *Society for Neuroscience,* San Diego CA.

Thorpe S, Deng S, Garcia J, Srinivasan R (2012, April) Modeling the interaction between distributed spatial attention signals and gamma-band steady-state visual evoked responses in simultaneously recorded EEG/MEG. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*, Chicago IL.

Thorpe S, Srinivasan R, Deng S, Lappas L, D'Zmura M (2009, October). Auditory spatial attention is predicted by EEG spectral features. Poster presented at the annual meeting of the *Society for Neuroscience,* Chicago IL.

Lappas T, D'Zmura M, Thorpe S, Deng S, Srinivasan R (2009, October). Predictive classification of imagined speech using EEG. Poster presented at the annual meeting of the *Society for Neuroscience,* Chicago IL.

D'Zmura M, Deng S, Lappas T, Thorpe S, Srinivasan R (2009, October). EEG classification of imagined syllable rhythm using Hilbert spectrum methods. Poster presented at the annual meeting of the *Society for Neuroscience,* Chicago IL.

Thorpe S (2008, May). Local and long-range interactions between Wilson-Cowan oscillators generate the characteristic frequencies of human EEG. Poster presented at *Statistics and Neural Data IV,* Pittsburgh PA.

Thorpe S (2007, May). Nonlinearities in binocular combination. Poster presented at the Institute for Mathematical Behavioral Sciences Graduate Studies Conference, Irvine CA.

Thorpe S (2006, May). Simultaneously recorded EEG and MEG reveal distributed wave-like sources in the SSVEP. Poster presented at *Statistics and Neural Data III,* Pittsburgh PA.