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ACADEMIC POSITIONS

2017– Postdoctoral Associate, Yale University
Advisors: BJ Casey & Avram Holmes

EDUCATION

2017	Ph.D.	Yale University, New Haven, CT Psychology (Cognitive Neuroscience) Advisor: Marvin Chun
2015	M.S., M.Phil.	Yale University, New Haven, CT Psychology (Cognitive Neuroscience)
2010	Sc.B.	Brown University, Providence, RI Cognitive Neuroscience

HONORS & AWARDS

2017	<i>Theresa Seessel Postdoctoral Fellowship</i> , Yale University
2017	<i>30 Under 30: Science</i> , Forbes
2016	<i>Dissertation Research Award</i> , American Psychological Association (\$1,000)
2016	<i>Best Talk Award</i> , Object Perception, Attention, & Memory meeting, Boston, MA
2016	<i>Brains, Minds, & Machines Workshop Fellowship</i> , Marine Biology Laboratory
2014–17	<i>Graduate Research Fellowship</i> , National Science Foundation
2010	<i>Phi Beta Kappa</i> , Brown University

PUBLICATIONS

List, A., Rosenberg, M. D., Sherman, A., Esterman, M. (2017). Pattern classification of EEG signals reveals perceptual and attentional states. *PLOS ONE*, 12(4): e0176349.

Rosenberg, M. D., Finn, E. S., Scheinost, D., Constable, R. T., Chun, M. M. (2017). Characterizing attention with predictive network models. *Trends in Cognitive Sciences*, 21(4): 290–302. [[Cover article](#)]

Shen, X., Finn, E. S., Scheinost, D., Rosenberg, M. D., Chun, M. M., Papademetris, X., Constable, R. T. (2017). Using connectome-based predictive modeling to predict individual behavior from brain connectivity. *Nature Protocols*, 12(3): 506–518.

Rosenberg, M. D., Zhang, S., Hsu, W.-T., Scheinost, D., Finn, E. S., Shen, X., Constable, R. T., Li, C.-S. R., Chun, M. M. (2016). Methylphenidate modulates functional network connectivity to enhance attention. *Journal of Neuroscience*, 36(37): 9547–9557.

Chekroud, A. M., Ward, E. J., Rosenberg, M. D., Holmes, A. J. (2016). Patterns in the human brain mosaic discriminate males from females. *Proceedings of the National Academy of Sciences*, pii: 201523888.

Rosenberg, M. D., Finn, E. S., Scheinost, D., Papademetris, X., Shen, X., Constable, R. T., Chun, M. M. (2016). A neuromarker of sustained attention from whole-brain functional connectivity. *Nature Neuroscience*, 19(1): 165–171. [Featured in [News and Views](#) by Smith (2016), [Science Magazine](#), and [NPR](#)]

Finn, E. S., Shen, X., Scheinost, D., Rosenberg, M. D., Huang, J., Chun, M. M., Papademetris, X., Constable, R. T. (2015). Functional connectome fingerprinting: identifying individuals using patterns of brain connectivity. *Nature Neuroscience*, 18(11): 1664–1671. [Cover article featured in [Nature News](#), [BBC News](#), and [Wired](#)]

Rosenberg, M. D., Finn, E. S., Constable, R. T., Chun, M. M. (2015). Predicting moment-to-moment attentional state. *NeuroImage*, 114: 249–256.

Esterman, M., Rosenberg, M. D., Noonan, S. (2014). Intrinsic fluctuations in sustained attention and distractor processing. *Journal of Neuroscience*, 34(5): 1724–1730.

Rosenberg, M., Noonan, S., DeGutis, J., Esterman, M. (2013). Sustaining visual attention in the face of distraction: A novel gradual-onset continuous performance task. *Attention, Perception, & Psychophysics*, 75(3): 426–439.

Esterman, M., Noonan, S., Rosenberg, M., DeGutis, J. (2013). In the zone or zoning out? Tracking neural and behavioral fluctuations in sustained visual attention. *Cerebral Cortex*, 23(11): 2712–2723.

MANUSCRIPTS

Rosenberg, M. D., Hsu, W.-T., Scheinost, D., Constable, R. T., Chun, M. M. (in revision). Connectome-based models predict separable components of attention in novel individuals.

Hsu, W.-T., Rosenberg, M. D., Scheinost, D., Constable, R. T., Chun, M. M. (under review). Resting-state functional connectivity in large-scale brain networks predicts neuroticism and extraversion in novel individuals.

Salehi, M., Scheinost, D., Rosenberg, M. D., Finn, E. S., Chun, M. M., Constable, R. T. (submitted). Network connectivity changes between task and resting-state fMRI data reveal flexibility and generalize attention prediction.

Jangraw, D. C., Gonzalez-Castillo, J., Handwerker, D. A., Ghane, M., Rosenberg, M. D., Panwar, P., Bandettini, P. A. (submitted). A functional connectivity-based neuromarker of sustained attention generalizes to predict recall in a reading task.

INVITED COLLOQUIA

- 2017 *Computational Biology Seminar Series*, IBM Research
- 2016 *Psychology Department Seminar*, Columbia University
- 2015 *Yale Institute for Network Science/Kavli Institute for Neuroscience Lecture*, Yale University
- 2015 *Methods & Tutorial Series*, VA Boston Neuroimaging Research Center
- 2014 *Current Works in Cognitive Psychology*, Yale University
- 2014 *Magnetic Resonance Research Center fMRI Seminar*, Yale University School of Medicine
- 2013 *Current Works in Cognitive Psychology*, Yale University

INVITED CONFERENCE & WORKSHOP PRESENTATIONS

- 2017 *Brainhack NYC* (Keynote), Child Mind Institute
- 2016 *Young European Scientist Meeting*, Faculty of Medicine of University of Porto, Portugal
- 2016 *3rd Biennial Brain Function Workshop*, Whistler-Blackcomb, BC, Canada
- 2014 *2nd Biennial Brain Function Workshop*, Whistler-Blackcomb, BC, Canada

CONTRIBUTED CONFERENCE PRESENTATIONS

Rosenberg, M. D.*, Scheinost, D., Hsu, W.-T., Finn, E. S.*, Constable, R. T., Chun, M. M. (2017). Large-scale functional connectivity networks predict individual differences and fluctuations in attention. Talk to be presented at *Organization for Human Brain Mapping*, Vancouver, BC, Canada. (*Symposium organizers)

Rosenberg, M. D., Scheinost, D., Hsu, W.-T., Finn, E. S., Constable, R. T., Chun, M. M. (2017). Large-scale functional connectivity networks predict attention fluctuations. Poster to be presented at *Organization for Human Brain Mapping*, Vancouver, BC, Canada.

Jangraw, D. C., Gonzalez-Castillo, J., Handwerker, D. A., Ghane, M., Rosenberg, M. D., Panwar, P., Gutierrez, B., Bandettini, P. A. Functional connectivity-based predictors of naturalistic reading comprehension. Poster to be presented at *Organization for Human Brain Mapping*, Vancouver, BC, Canada.

Hsu, W.-T., Rosenberg, M. D., Scheinost, D., Finn, E. S., Constable, R. T., Chun, M. M. (2017). Resting-state functional connectivity in large-scale brain networks predicts neuroticism and extraversion in novel individuals. Poster presented at *Cognitive Neuroscience Society*, San Francisco, CA.

Rosenberg, M. D., Hsu, W.-T., Scheinost, D., Finn, E. S., Constable, R. T., Chun, M. M. (2016). Connectome-based fMRI models predict separable components of attention in novel individuals. Talk presented at *Object Perception, Attention, & Memory*, Boston, MA.

Salchi, M., Scheinost, D., Finn, E. S., Rosenberg, M. D., Chun, M. M., Constable, R. T. (2016). Network changes between task- and resting-state functional connectivity predict behavior across datasets. Poster presented at *Society for Neuroscience*, San Diego, CA.

Rosenberg, M. D., Zhang, S., Hsu, W.-T., Scheinost, D., Finn, E. S., Shen, X., Constable, R. T., Li, C-S. R., Chun, M. M. (2016). Methylphenidate modulates attention network strength. Poster presented at *Resting State and Brain Connectivity*, Vienna, Austria.

Rosenberg, M. D., Finn, E. S., Scheinost, D., Papademetris, X., Shen, X., Constable, R. T., Chun, M. M. (2015). Resting-state brain connectivity predicts ADHD symptom severity in individual children. Poster presented at *Organization for Human Brain Mapping*, Honolulu, HI.

Rosenberg, M. D., Finn, E. S., Shen, X., Scheinost, D., Papademetris, X., Constable, R. T., Chun, M. M. (2014). Strength of task-relevant networks at rest predicts sustained attention performance. Poster presented at *Society for Neuroscience*, Washington, D.C.

Rosenberg, M. D., Finn, E. S., Constable, R. T., Chun, M. M. (2014). Predicting moment-to-moment attentional state. Poster presented at *Vision Sciences Society*, St. Pete Beach, FL.

Finn, E. S., Rosenberg, M. D., Shen, X., Scheinost, D., Papademetris, X., Chun, M. M., Constable, R. T. (2014). Predicting working memory and attentional performance from complex networks during task and at rest. Poster presented at *The Organization for Human Brain Mapping*, Hamburg, Germany.

Rosenberg, M. D., Finn, E. S., Chun, M. M. (2013). Tracking fluctuations in sustained attention under varying degrees and types of task load. Poster presented at *Society for Neuroscience*, San Diego, CA.

Finn, E. S., Rosenberg, M. D., Shen, X., Constable, R. T., Chun, M. M. (2013). Predicting attention and performance across varying task loads from complex networks during task and at rest. Poster presented at *Society for Neuroscience*, San Diego, CA.

Noonan, S., Esterman, M., Rosenberg, M. (2013). Neural signatures of individual differences in sustained attention. Poster presented at *Organization for Human Brain Mapping*, Seattle, WA.

List, A., Rosenberg, M., Sherman, A., Grabowecky, M., Suzuki, S., Esterman, M. (2013). EEG pattern classification reveals the scope of local vs. global attention. Poster presented at *Vision Sciences Society*, Naples, FL.

List, A., Rosenberg, M., Sherman, A., Grabowecky, M., Suzuki, S., Esterman, M. (2013). Neural correlates of local vs. global attentional scope revealed via EEG pattern classification. Poster presented at *Cognitive Neuroscience Society*, San Francisco, CA.

Rosenberg, M., List, A., Sherman, A., Grabowecky, M., Suzuki, S., Esterman, M. (2012). Decoding EEG data reveals dynamic spatiotemporal patterns in perceptual processing. Poster presented at *Vision Sciences Society*, Naples, FL.

Esterman, M., Noonan, S., Rosenberg, M. (2012). In the zone or zoning out? Behavioral and neural evidence for distinct attentional states. Poster presented at *Vision Sciences Society*, Naples, FL.

Rosenberg, M., List, A., Sherman, A., Grabowecky, M., Suzuki, S., Esterman, M. (2012). Classifying visual perception on a trial-by-trial basis using EEG signals. Poster presented at *Cognitive Neuroscience Society*, Chicago, IL.

Rosenberg, M., Noonan, S., DeGutis, J., Esterman, M. (2011). Sustaining visual attention in the face of distraction: A novel gradual onset continuous performance task. Poster presented at *Vision Sciences Society*, Naples, FL.

Esterman, M., Noonan, S., Rosenberg, M., DeGutis, J. (2011). In the zone or zoning out? Tracking neural and behavioral fluctuations in sustained visual attention. Poster presented at *Vision Sciences Society*, Naples, FL.

Noonan, S., Rosenberg, M., DeGutis, J., Esterman, M. (2011). In the zone or zoned out? Performance variability and BOLD fluctuations in the default-mode network. Poster presented at *Organization for Human Brain Mapping*, Quebec City, Canada.

TEACHING EXPERIENCE

- 2014 The Human Brain, Yale University, Teaching Fellow
- 2014 Introduction to Psychology, Yale University, Teaching Fellow
- 2013 Introduction to Cognitive Science, Yale University, Teaching Fellow