

Ben Deen
CURRICULUM VITAE

PERSONAL INFORMATION

Full Name: Benjamin Matthew Deen
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Contact Address: The Rockefeller University
1230 York Ave, New York, NY 10065

EDUCATION

MIT	Ph.D. in Neuroscience Advisors: Rebeca Saxe, Nancy Kanwisher	February 2016
Yale University	B.S. in Physics and Cognitive Science Magna cum laude, distinction in both majors	May 2009

AWARDS

Helen Hay Whitney Fellowship	2017-2020
Vision Sciences Society Travel Award	2016
National Science Foundation Graduate Research Fellowship	2012-2015 (awarded 2010)
MIT Presidential Fellowship	2010-2011
Magna cum laude (Yale University)	2009
National merit scholarship finalist	2005

EMPLOYMENT

Research Assistant Human Neuroscience Lab, Yale University PI: Gregory McCarthy	Summer 2008 and 2009
Research Assistant Child Neuroscience Lab, Yale University PI: Kevin Pelphrey	2009-2010
Postdoctoral Associate/Fellow Laboratory of Neural Systems, Rockefeller University PI: Winrich Freiwald	2016-Present

PUBLICATIONS

Deen, B., Saxe, R., Kanwisher, N.G. (submitted). Dynamic facial and vocal information in the superior temporal sulcus.

Deen, B., Saxe, R. (2019). Parts-based representations of perceived face movements in the superior temporal sulcus. *Human Brain Mapping*, 40(8), 2499-2510.

Powell, L. J., **Deen, B.**, Saxe, R. (2018). Using individual functional channels of interest to study cortical development with fNIRS. *Developmental Science*, 21(e12595).

Deen, B., Richardson, H., Dilks, D., Takahashi, A., Keil, B., Wald, L., Kanwisher, N.G., Saxe, R. (2017). Organization of high-level visual cortex in human infants. *Nature Communications* 8, 13995.

Deen, B., Koldewyn, K., Kanwisher, N.G., Saxe, R. (2015). Functional organization of social perception and cognition in the superior temporal sulcus. *Cerebral Cortex*, 25(11), 4596-4609.

Deen, B., Saxe, R., Bedny, M. (2015). Occipital cortex of blind individuals is functionally coupled with executive-control areas of frontal cortex. *Journal of Cognitive Neuroscience*, 27(8), 1633-1647.

Di Martino, A., Yan, C.-G., Li, Q., Denio, E., Castellanos, F.X., Alaerts, K., Anderson, J.-S., Assaf, M., Berhmann, M., Bookheimer, S.Y., Dapretto, M., **Deen, B.**, Delmonte, S., Dinstein, I., Ertl-Wagner, D., Fair, D.A., Gallagher, L., Kennedy, D.P., Keown, C.L., Keysers, C., Lainhart, J.E., Lord, C., Luna, B., Menon, V., Minshew, N.J., Monk, C.S., Müller, R.-A., Nebel, M.B., Nigg, J.T., O’Hearn, K., Pelphrey, K.A., Peltier, S.J., Rudie, J.D., Sunaert, S., Thioux, M., Tyszka, J.M., Uddin, L.Q., Verhoeven, J.S., Wenderoth, N., Wiggins, J.L., Mostofsky, S.H., Milham, M.P. (2013). The autism brain imaging data exchange: towards a large-scale evaluation of the intrinsic brain architecture in autism. *Molecular Psychiatry*, 19(6), 659-667.

Deen, B., Pelphrey, K.A. (2012). Perspective: Brain scans need a rethink. *Nature* 491, S20.

Bolling, D.Z., Pitskel, N.B., **Deen, B.**, Crowley, M.J., Mayes, L.C., Pelphrey, K.A. (2011). Development of neural systems for processing social exclusion from childhood to adolescence. *Developmental Science*, 14(6), 1431-1444.

Bolling, D.Z., Pitskel, N.B., **Deen, B.**, Crowley, M.J., McPartland, J.C., Kaiser, M.D., Vander Wyk, B.C., Wu, J., Mayes, L.C., Pelphrey, K.A. (2011). Enhanced neural responses to rule violation in children with autism: a comparison to social exclusion. *Developmental Cognitive Neuroscience*, 1(3), 280-294.

Deen, B., Pitskel, N.B., Pelphrey, K.A. (2011). Three systems of insular functional connectivity identified with cluster analysis. *Cerebral Cortex*, 21(7), 1489-1506.

Kaiser, M.D., Hudac, C.M., Shultz, S., Lee, S.M., Cheung, C., Berken, A.M., **Deen, B.**, Pitskel, N.B., Sugrue, D.R., Voos, A.C., Saulnier, C.A., Ventola, P., Wolf, J.M., Klin, A., Vander Wyk, B.C., Pelphrey, K.A. (2011). Neural signatures of autism. *Proceedings of the National Academy of Sciences of the USA*, 107(49), 21223-21228.

Bolling, D.Z., Pitskel, N.B., **Deen, B.**, Crowley, M.J., McPartland, J.C., Mayes, L.C., Pelphrey, K.A. (2011). Dissociable brain mechanisms for processing social exclusion and rule violation. *NeuroImage*, 54(3), 2462-2471.

Deen, B., McCarthy, G. (2010). Reading about the actions of others: biological motion imagery and action congruency influence brain activity. *Neuropsychologia*, 48(6), 1607-1615.

CONFERENCE PRESENTATIONS

Deen, B., Richardson, H., Dilks, D., Takahashi, A., Keil, B., Wald, L., Kanwisher, N.G., Saxe, R. Organization of high-level visual cortex in human infants. Oral presentation: Society for

Neuroscience, 2016.

Deen, B., Richardson, H., Dilks, D., Takahashi, A., Keil, B., Wald, L., Kanwisher, N.G., Saxe, R. Category-selective visual regions in human infants. Oral presentation: Vision Sciences Society, 2016.

Deen, B., Saxe, R. Parts-based representations of perceived face movements in the superior temporal sulcus. Oral presentation: Society for Neuroscience, 2015.

Deen, B., Kanwisher, N., Saxe, R. Functional organization of the human superior temporal sulcus. Poster: Human Brain Mapping, 2015.

Powell, L.J., **Deen, B.**, Guo, L., Saxe, R. Using fNIRS to map functional specificity in the infant brain: An fROI approach. Poster: Society for Research in Child Development, 2015.

Deen, B., Kanwisher, N., Saxe, R. Exploring the functional organization of the superior temporal sulcus with a broad set of naturalistic stimuli. Poster: Vision Sciences Society, 2014.

Deen, B., Kanwisher, N., Saxe, R. Exploring superior temporal sulcus responses and patterns with a broad set of naturalistic stimuli. Poster: Society for Neuroscience, 2013.

Deen, B., Bedny, M., Saxe, R. Functional connectivity of frontal and occipital cortex in congenitally blind adults. Poster: Organization for Human Brain Mapping, 2013.

Deen, B., Saxe, R., Pelphrey, K.A. Investigating functional connectivity in a large sample of children with Autism Spectrum Disorders. Poster: International Meeting for Autism Research, 2013.

Deen, B., Saxe, R. Neural correlates of social perception: the posterior superior temporal sulcus is modulated by action rationality but not animacy. Oral presentation: Cognitive Science Society, 2012.

Di Martino, A., Castellanos, F.X., Anderson, J., Alaerts, K., Assaf, M., Berhmann, M., **Deen, B.**, Fair, D., Gallagher, L., Kennedy, D., Lainhart, J., Lord, C., Luna, B., Minshew, N., Monk, C., Müller, R.-A., Nigg, J., O'Hearn, K., Pelphrey, K., Peltier, S., Sunaert, S., Verhoeven, J., Wenderoth, N., Wiggins, J., Milham, M., Mostofsky, S. The Autism Brain Imaging Data Exchange (ABIDE) consortium: open sharing of autism resting state fMRI. Poster: Organization for Human Brain Mapping, 2012.

Deen, B., Pelphrey, K.A. Large-scale functional connectivity in children with Autism Spectrum Disorders. Oral presentation: International Meeting for Autism Research, 2012.

Deen, B., Koldewyn, K., Weigelt, S., Kanwisher, N., Saxe, R. Selectivity and multifunctionality in the superior temporal sulcus. Poster: Cognitive Neuroscience Society, 2012.

Deen, B., Pelphrey, K.A. Functional connectivity of the ventromedial prefrontal cortex in children with Autism Spectrum Disorders. Poster: International Meeting for Autism Research, 2011.

Bolling, D.Z., Pitskel, N.B., **Deen, B.**, Crowley, Kaiser, M.D., Pelphrey, K.A. A Dissociation In Function: Brain Regions Hypoactive to Social Exclusion and Hyperactive to Rule Violation In Children with ASD. Oral presentation: International Meeting for Autism Research, 2011.

Deen, B., Pitskel, N.B., Pelphrey, K.A. Parcellating the human insula using resting-state functional connectivity. Poster: Society for Neuroscience, 2010.

Bolling, D.Z., Pitskel, N.B., **Deen, B.**, Crowley, M.J., McPartland, J.C., Mayes, L.C., Pelphrey, K.A. Brain Mechanisms for Processing Social Exclusion and Rule Violation in Children with Autism Spectrum Disorder. Poster: Social Affective Neuroscience, 2010.

Deen, B., Westphal, A., Jou, R.J., Pelphrey, K.A. Default mode connectivity in children with and without autism, and their siblings. Poster: International Meeting for Autism Research, 2010.

Bolling, D.Z., Pitskel, N.B., **Deen, B.**, Crowley, M.J., McPartland, J.C., Mayes, L.C., Pelphrey, K.A. Brain Mechanisms for Processing Social Exclusion and Rule Violation. Poster: Human Brain Mapping, 2010.

TEACHING

- 2011 (Fall) MIT 9.07 Statistics for Brain and Cognitive Sciences
Teaching assistant, taught weekly recitations
- 2013 (Spring) MIT 9.65 Cognitive Processes
Teaching assistant, gave review sessions and one course lecture
- 2014 (Fall) MIT 9.520 Statistical Learning Theory
Teaching assistant, held office hours and oversaw projects
- 2015 (Spring) MIT 9.40 Introduction to Neural Computation
Teaching assistant, taught weekly recitations
- 2015 (Fall) MIT 9.520 Statistical Learning Theory
Teaching assistant, held office hours and oversaw projects