

Rachael Tillman

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Education & Training

- 2014 - present Doctoral Student in Clinical Psychology
University of Maryland, College Park, MD
Masters of Science (expected 2016); Doctor of Philosophy (expected 2020)
- 2012 - 2014 Sara S. Sparrow Fellow in Clinical Neuroscience
McPartland Lab, Yale Child Study Center, New Haven, CT
- 2008 - 2012 Bachelor of Arts in Psychological and Brain Sciences
Johns Hopkins University, Baltimore, MD

Honors & Awards

- International Meeting for Autism Research Travel Award 2014
International Meeting for Autism Research Travel Award 2013
Johns Hopkins Dean's List 2008-2012

Publications

Peer-Reviewed Publications

Tillman, R.M., Gordon, I., Naples, A., Leckman, J.F., Feldman, R., Pelphrey, K.A., & McPartland, J.C. Oxytocin enhances neural efficiency of social perception. *Under Review*.

Shackman A.J., Stockbridge M.D., Tillman R.M., Kaplan C. M., Tromp, D. P. M., Fox, A. S., & Gamer, M. (2016). The neurobiology of anxiety and attentional biases to threat: Implications for understanding neuropsychiatric disorders. *Journal of Experimental Psychopathology*, 7, 311-342.

Shackman, A.J., Tromp, D. P. M., Stockbridge, M. D., Kaplan, C. M., Tillman, R. M., & Fox, A. S. (2016). Dispositional negativity: An integrative psychological and neurobiological perspective. *Psychological Bulletin*, 142, 1275-1314.

Hashim, P. Travieso, R., Persing, J. A., Coffman, M., Mukerji, C., Naples, A., Tillman, R., Terner, J., Landi, N., Patel, A., Steinbacher, D., Mayes, L., & McPartland, J. C. (2014). Brain electrophysiology reveals intact processing of speech sounds in deformational plagiocephaly. *Plastic and Reconstructive Surgery*, 133, 835e-841e.

Vasa, R.A., Ranta, M., Huisman, T.A., Pinto, P.S., Tillman, R.M., Mostofsky, S.H. (2012). Normal rates of neuroradiological findings in children with high functioning autism. *Journal of Autism and Developmental Disorders*, 42, 1662-1667o.

Book Chapter

McPartland, J.C., Tillman, R.M., Yang, D.Y.J., Bernier, R.A., Pelphrey, K.A. (2013). The Social Neuroscience of Autism Spectrum Disorder. In F. R. Volkmar, R. Paul, S. J. Rogers, & K. A. Pelphrey (Eds.), *Handbook of Autism and Pervasive Developmental Disorders, Fourth Edition: Assessment, Intervention, Policy, the Future*. New Jersey: Jon Wiley & Sons, Inc.

Selected Presentations

Tillman, R.M., Stockbridge, M.D., Nacewicz, B. M., Smith, J. F., & Shackman, A. J. (2017, May) Functional architecture of central extended amygdala networks. Poster to be presented at SOBP, San Diego, US.

Tillman, R. Gordon, I., Leckman, J. F., Feldman, R., Naples, A., Righi, G., Pelphrey, K. A., & McPartland, J. (2014, May). Oxytocin increases processing efficiency of socially salient visual information. Poster presented at IMFAR, Atlanta, US.

Naples, A., **Tillman, R.**, Levy, E., Reuman, H. S., & McPartland, J. (2014, May). Gaze contingent games to modify neural response to eye contact in ASD. Poster presented at IMFAR, Atlanta, US.

Rolison, M., **Tillman, R.**, Ventola, P., Foss-Feig, J., Friedman, H., Oosting, D., Anderson, L., Cordeaux, C., Doggett, R., Mukerji, C., Coffman, M., Wolf, J., Pelphrey, K., & McPartland, J. (2014, May). Pivotal response treatment increases processing efficiency for social information. Poster presented at IMFAR, Atlanta, US.

Carter Leno, V., Naples, A., **Tillman, R.**, Reuman, H. S., Levy, E., Rutherford, H., Cox, A., & McPartland, J. (2014, May). The relationship between neural sensitivity to social and non-social positive and negative feedback and autistic traits. Poster presented at IMFAR, Atlanta, US.

Pelphrey, K., Ventola, P., Yang, D., Vander Wyk, B. C., Doggett, R., **Tillman, R.**, Friedman, H., Oosting, D., McPartland, J., Allen, T., & Chapman, S. B. (2014, May). Neurobiological markers of treatment response in adults with ASD. Poster presented at IMFAR, Atlanta, US.

Dominguez, A., Naples, A., **Tillman, R.**, Reuman, H. S., Schultz, R. T., Klin, A., Mayes, L., & McPartland, J. (2014, May). Neurocognitive factors associated with neural specialization for letters in ASD. Poster presented at IMFAR, Atlanta, US.

Tillman, R., Rolison, M., Righi, G., Mukerji, C., Naples, A., Coffman, M., Cuevas, C., Foss-Feig, J., Hashim, P., & McPartland, J. (2013, November). Developmental electrophysiological indices of biological motion and audio-visual integration in infants at-risk for autism. Talk presented at SfN, San Diego, US.

Tillman, R., Rolison, M., Righi, G., Mukerji, C.E., Naples, A., Coffman, M., Foss-Feig, J., Hashim, P., & McPartland, J. (2013, May). Neural sensitivity to biological motion versus audio-visual synchrony in infants at risk for autism. Poster presented at IMFAR, San Sebastián, Spain.

Mukerji, C.E., Naples, A., Bernier, R., **Tillman, R.**, Perszyk, D., & McPartland, J. (2013, May). ERPs reveal atypical neural response during empathy for physical and social pain in ASD. Poster presented at IMFAR, San Sebastián, Spain.

Naples, A., Coffman, M., Mukerji, C.E., **Tillman, R.**, & McPartland, J. (2013, May) Adolescents with ASD show attenuated neural response to reciprocal eye contact. Poster presented at IMFAR, San Sebastián, Spain.

Hashim, P., Coffman, M., Mukerji, C.E., **Tillman, R.**, Perszyk, D., Terner, J.S., Travieso, R., Landi, N., Mayes, L., Persing, J.A., & McPartland, J. (2013, May). Specificity of atypical neural development for language in infants at risk for ASD. Poster presented at IMFAR, San Sebastián, Spain.

Desai, A., Naples, A., Coffman, M., Mukerji, C.E., **Tillman, R.**, Kresse, A., Bernier, R., & McPartland, J. (2013, May). Relative contribution of autistic traits versus alexithymic traits in the neural processing of social information. Poster presented at IMFAR, San Sebastián, Spain.

Research & Clinical Experiences

Research

Sara S. Sparrow Fellow in Clinical Neuroscience, McPartland Lab, Yale Child Study Center

July 2012 - August 2014

Advisor: Dr. James McPartland, Ph.D.

- Managed IRB protocols and Research Exchange Database
- Mentored and trained research fellows and graduate and undergraduate students
- Programmed experimental paradigms and created stimuli
- Collected EEG and eye-tracking data from typically and atypically developing infants, children, and adults
- Processed and analyzed ERP and EEG data

Research assistant, Laboratory for Neurocognitive and Imaging Research, Kennedy Krieger

January 2010 - June 2012

Advisor: Dr. Roma Vasa, M.D.

- Collected, managed, and pre-processed fMRI data from children with and without anxiety disorders
- Collected and analyzed attention and memory data from children with and without anxiety disorders
- Analyzed prevalence of neuroradiological findings in pediatric population and contributed to the manuscript
- Compiled and organized a multi-site, longitudinal dataset from the Child and Adolescent Anxiety Disorders (CAMS) project

Clinical

University of Maryland Psychology Clinic, College Park, MD

September 2015 - *present*

Graduate Student Therapist, Supervised by Drs. Colleen Byrne, Abigail Romirowsky, and Aditi Vijay, Ph.Ds.

- Providing evidence-based assessment and individual therapy within a cognitive behavior framework for children, adolescents, and adults with psychiatric concerns and difficulties/impairment with adjustments to life transitions.

Affective and Translational Neuroscience Laboratory, College Park, MD

February 2015 - *present*

Assessor, Supervised by Dr. Andres De Los Reyes, Ph.D.

- Administering the Child MINI International Neuropsychiatric Interview to adolescents as part of a dissertation project identifying the neural correlates of social fear and anxiety in adolescence
- Administering the Structured Clinical Interview for DSM-5 (SCID-5) to young adults as part of a NIMH funded longitudinal study characterizing the etiology of depression and anxiety.

Maryland Attention Deficit/Hyperactivity Disorder (ADHD) Program, College Park, MD

January 2015 - July 2016

Independent Evaluator, Supervised by Dr. Andrea Chronis-Tuscano, Ph.D.

- Administered the parent-interview child Anxiety Disorder Interview Schedule (ADIS) about behaviorally inhibited preschool aged children (ages 3-5 years old) as part of a large scale, longitudinal intervention study funded by the NIMH
- Administered the Adult Anxiety Disorder Interview Schedule (ADIS) to parents about themselves as part of the same study (mentioned above).

Autism Program and McPartland Lab, Yale Child Study Center, New Haven, CT

July 2012 - August 2014

Therapist and Assessor, Supervised by Drs. James McPartland, Ph.D. and by Dr. Pam Ventola, Ph.D.

- Provided Pivotal Response Treatment (PRT) to young adults diagnosed with Autism Spectrum Disorder (ASD) as part of an intervention study
- Administered the parent-interview Vineland Adaptive Behavior Scales, 2nd edition about their children for families seeking comprehensive multidisciplinary evaluations focusing on children's diagnosis, determination of strengths and weaknesses, and informing educational programming intervention
- Administered the Differential Ability Scales-II to typically developing research participants and participants diagnosed with ASD