

Elizabeth Redcay, Ph.D.
Curriculum Vitae
August 2018

Academic History

2017-current	Associate Professor of Psychology University of Maryland, College Park
2011-2017	Assistant Professor of Psychology University of Maryland, College Park
2008-2010	Postdoctoral Research Fellow Massachusetts Institute of Technology
2008	Ph.D. Psychology and Cognitive Science University of California San Diego
2003	M.A. Psychology University of California San Diego
2001	B.S. Psychology with Neurosciences Concentration Duke University, cum laude and with Distinction

Honors & Awards

2014	UMD Research and Scholarship Award (RASA)
2013	NSF ADVANCE Award
2011	Dean's Research Initiative Award
2008	NIH NRSA Postdoctoral Fellowship
2007	Norman Anderson Travel Award
2006	NIH Institute for Neural Computation Training Grant
2006	NSF Travel Award
2003	NSF Graduate Research Fellowship, Honorable Mention
2001	NIH Intramural Research Training Award
2000	Howard Hughes Fellow Award
2000	Undergraduate Research Support Award

Grant Funding

Current

2017-2022	NIH-National Institute of Mental Health R01 MH112517: <i>Dynamics of Large-Scale Networks During Emotional and Social Processing</i> (PI ; PI: Luiz Pessoa; Multi-PI), direct costs: \$2,222,056
2016-2021	NIH-National Institute of Mental Health R01 MH107441: <i>Brain network dynamics supporting atypical social interaction in autism</i> (PI ; co-I: Luiz Pessoa), direct costs: \$1,803,541

- 2016-2021 NIH-National Institute of Child Health and Human Development P01 HD064653-06: *Functions and development of the mirror neuron system (co-Project Lead for Project 1, co-I Core B; PI: Nathan Fox)*, P01 direct costs: \$4,150,765
- 2014-2019 NIH-National Institute of Child Health and Human Development R01 HD079518: *Hippocampal-Memory Network Development and Episodic Memory in Early Childhood (co-I; PI: Tracy Riggins)*, direct costs: \$1,542,995
- Completed
- 2014-2017 Department of Defense Congressionally-Directed Medical Research Programs: *Brain mechanisms of affective language comprehension in autism spectrum disorders (co-I; PI: Donald J Bolger)*, direct costs: \$515,244
- 2013-2014 UMD Tier-2 VPR seed grant: *Functions and Plasticity of the Mirror Neuron System – Project 1 (co-PI; PI: Nathan Fox)*, direct costs: \$57,772
- 2013-2014 NIH-National Institute of Child Health and Human Development Supplement: *Functions and Plasticity of the Mirror Neuron System – Project 1 (co-Project Lead; Project Lead: Nathan Fox)*, direct costs: \$47,484
- 2012-2014 Department of Defense Congressionally Directed Medical Research Programs: *How autism affects speech understanding in multi-talker environments (co-I; PI: Rochelle Newman)*, direct costs: \$100,000
- 2012-2013 NSF ADVANCE seed grant: *Investigating the shared neural systems for language and gesture comprehension (PI; co-PI: Meredith Rowe)*, direct costs: \$20,000
- 2011-2012 UMD Dean’s Research Initiative: *Brain networks supporting memory during childhood (co-PI; co-PI: Tracy Riggins)*, direct costs: \$40,000
- 2008-2010 NIH-National Institute of Child Health and Human Development NRSA: *Neural substrate of language and social cognition: autism and typical development (PI; 5th percentile)*, direct costs: \$88,910

Publications

Peer-reviewed journal articles

*Indicates trainee: current or former student, postbacc, or postdoc.

Consistent with the fields of cognitive neuroscience and psychiatry I take a senior (last) author role on articles in which a trainee in my lab is listed as first author.

Alkire, D.A.*, Levitas, D.*, Warnell, K.R.*, **Redcay, E.** (in press) Social interaction recruits mentalizing and reward systems in middle childhood. *Human Brain Mapping*

Kirby, L.C.*, Moraczewski, D.*, Warnell, K.R.*, Velnoskey, K.*, **Redcay, E.** (2018) Social network size relates to developmental neural sensitivity to biological motion. *Developmental Cognitive Neuroscience*, 30:169-177.

Moraczewski, D.*, Chen, G., & **Redcay, E.** (2018) Inter-subject synchrony as an index of functional specialization in early childhood. *Scientific reports*, 8(1):2252

Warnell, K.R.*, Sadikova, E.*, **Redcay, E.** (2018) Let’s chat: Developmental neural bases of social motivation during real-time peer interaction. *Developmental Science*, 21(3):e12581

- Warnell, K.R.*, Pecukonis, M.*, **Redcay, E.** (2017) Effects of Informant, Age, and Sex on the Developmental Relation Between Amygdala Volume and Anxiety Traits. *Development and Psychopathology*, 21:1-13.
- Blankenship, S.L.*, **Redcay, E.**, Dougherty, L.R., Riggins, T. (2017) Development of hippocampal functional connectivity during childhood. *Human Brain Mapping*, 38(1):182-201.
- Redcay, E.**, Velnoskey, K.*, Rowe, M. (2016). Perceived communicative intent in gesture and language modulates the superior temporal sulcus. *Human Brain Mapping*, 37(10):3444-61.
- Rice, K.*, Moraczewski, D.*, **Redcay, E.** (2016). Perceived live interaction modulates the developing social brain. *Social Cognitive and Affective Neuroscience*, 11(9):1354-62.
- Rice, K.*, & **Redcay, E.** (2016). Interaction matters: A perceived social partner alters the neural response to human speech. *NeuroImage*, 129:480-488.
- Riggins, T., Geng, F., Blankenship, S.L.*, **Redcay, E.** (2016) Hippocampal functional connectivity and episodic memory in early childhood. *Developmental Cognitive Neuroscience*, 19:58-69.
- Rice, K.*, Anderson, L.C.*, Velnoskey, K.*, Thompson, J.C., **Redcay, E.** (2016) Biological motion perception links diverse facets of theory of mind in middle childhood. *Journal of Experimental Child Psychology*, 146:238-246.
- Redcay, E.**, Ludlum, R.S.*, Velnoskey, K.*, & Kanwal, S.* (2016) Communicative signals promote object recognition memory and modulate the posterior superior temporal sulcus. *Journal of Cognitive Neuroscience*, 28(1): 8-19.
- Riggins, T., Geng, F., Blankenship, S.L.*, **Redcay, E.** (2016) Hippocampal functional connectivity and episodic memory in early childhood. *Developmental Cognitive Neuroscience*, 19:58-69.
- Anderson, L.C.*, Rice, K.*, Chrabaszcz, J.*, **Redcay, E.** (2015). Tracking the neurodevelopmental correlates of mental state inference in early childhood. *Developmental Neuropsychology*, 40(7-8):379-394.
- Redcay, E.** & Carlson, T (2015). Rapid neural discrimination of communicative gestures. *Social Cognitive and Affective Neuroscience*, 10(4):545-51.
- Rice, K.*, & **Redcay, E.** (2015). Spontaneous mentalizing captures variability in the cortical thickness of social brain regions. *Social Cognitive and Affective Neuroscience*, 10(3):327-34.
- Rice, K.*, Viscomi, B.*, Riggins, T., **Redcay, E.** (2014) Amygdala volume linked to individual differences in mental state inference in early childhood and adulthood. *Developmental Cognitive Neuroscience*, 8:153-163.
- Redcay, E.**, Moran, J.M., Mavros, P.L., Tager-Flusberg, H., Gabrieli, J.D.E., Whitfield-Gabrieli, S. (2013) Intrinsic functional connectivity in high-functioning adolescents with autism spectrum disorder. *Frontiers in Human Neuroscience*, 7:573.
- Dufour, N., **Redcay, E.**, Young, L., Mavros, P.L., Moran, J.M., Triantafyllou, C., Saxe, R. (2013) Similar brain activation during false belief tasks in a large sample of adults with and without Autism. *Plos One*, 8(9): e75468.
- Redcay, E.**, Dodell-Feder, D., Mavros, P.L., Kleiner, M., Pearrow, M.J., Triantafyllou, C., Gabrieli, J.D.E., Saxe, R. (2013). Atypical brain activation patterns during a face-to-face

interactive joint attention game in adults with autism spectrum disorder. *Human Brain Mapping*, 34(10): 2511-2523.

Wagner, J.B., Hirsch, S.B., Vogel-Farley, V.K., **Redcay, E.**, Nelson, C.A. (2013) Eye-tracking, autonomic, and electrophysiological correlates of emotional face processing in adolescents with autism spectrum disorder. *Journal of Autism and Developmental Disorders*. 43(1):188-99.

Redcay, E., Kleiner, M., Saxe, R. (2012). Look at this: The neural correlates of initiating and responding to bids for joint attention. *Frontiers in Human Neuroscience*. 6(169):1-14.

Redcay, E., Dodell-Feder, D., Pearrow, M.J., Mavros, P.L., Kleiner, M., Gabrieli, J.D.E., Saxe, R. (2010). Live face-to-face interaction during fMRI: A new tool for social cognitive neuroscience. *NeuroImage*. 50: 1639-1647.

Redcay, E. & Courchesne, E. (2008). Deviant patterns of fMRI brain activity in response to speech in 2-3 year old children with autism spectrum disorder. *Biological Psychiatry*. 64(7): 589-598.

Pierce, K. & **Redcay, E.** (2008) Fusiform activation in autism is a matter of ‘who’. *Biological Psychiatry*. 64(7): 552-560.

Redcay, E., Haist, F., Courchesne, E. (2008). Functional neuroimaging of speech perception during a pivotal period in language acquisition. *Developmental Science*. 11(2): 237-252.

Redcay, E. (2008) The superior temporal sulcus performs a common function for speech and social perception: Implications for the emergence of autism. *Neuroscience and Biobehavioral Reviews*. 32(1):123-142.

Courchesne, E., Pierce, K., Schumann, C.S., **Redcay, E.**, Buckwalter, J., Kennedy, D.P., Morgan, J. (2007) Mapping early brain development in autism. *Neuron*. 56(2):399-413.

Redcay, E., Kennedy, D.P., Courchesne, E. (2007) Functional MRI during natural sleep as a method to study brain function during early childhood. *NeuroImage*. 38(4):696-707.

Kennedy, D.P.[†], **Redcay, E.**[†], Courchesne, E. (2006). Failing to deactivate: Resting functional abnormalities in autism. *Proceedings of the National Academy of Sciences USA*. 103(21):8275-80. [†]Authors share first authorship

Courchesne, E., **Redcay, E.**, Morgan, J.T., Kennedy, D.P. (2005). Autism at the beginning: Microstructural and growth abnormalities underlying the cognitive and behavioral phenotype of autism. *Development and Psychopathology*. 17(3):577-97.

Redcay, E. & Courchesne, E. (2005). When is the brain enlarged in autism: A Meta-analysis of all brain size reports. *Biological Psychiatry*. 58(1):1-9.

Courchesne, E., **Redcay, E.**, Kennedy, D.P. (2004). The autistic brain: Birth through adulthood. *Current Opinion in Neurology*. 17(4):489-96.

Chapters, Commentaries, and Peer-reviewed proceedings:

Redcay, E., & Warnell, K.R.* (2018) A social-interactive neuroscience approach to understand the developing brain. *Advances in Child Development and Behavior*, 54:1-44

Silk, J., **Redcay, E.**, Fox, N. (2014). Contributions of Social and Affective Neuroscience to our understanding of typical and atypical development. *Developmental Cognitive Neuroscience*, 8, 1-6.

Redcay, E. & Saxe, R., (2013). Reduced neural sensitivity to online social interactions in autism. In M.Knauff, M. Pauen, N. Sebanz, I. Wachsmuth (Eds.) *Proceedings of the 35th Annual*

Conference of the Cognitive Science Society (pp 3263-3268). Austin, TX: Cognitive Science Society.

- Redcay, E.,** Rice, K.*, Saxe, R. (2013). Interaction vs. observation: A finer look at this distinction and its importance to autism (commentary). *Behavioral and Brain Sciences*, 36(4):435.
- Redcay, E. &** Saxe, R. (2013). Do you see what I see? The neural bases of joint attention. In Metcalfe J & Terrace H (eds), *Agency and Joint Attention*. New York: Oxford University Press. pp. 216-237.
- Dufour, N., **Redcay, E.,** Young, L., Mavros, P.L., Moran, J.M., Triantafyllou, C., Saxe, R. (2012) What explains variability in brain regions associated with theory of mind in a large sample of neurotypical adults and adults with ASD? In N. Miyake, D. Peebles, & R.P. Cooper, Eds. *Proceedings of the 34th Annual Meeting of the Cognitive Science Society* (pp. 312-317) Austin, TX: Cognitive Science Society.
- Redcay, E.,** O'Young, D., Slevc, L.R., Mavros, P.L., Gabrieli, J.D.E., & Sinha, P. (2012). Gaze cues in complex, real-world scenes direct the attention of high-functioning adults with autism. In N. Miyake, D. Peebles, & R.P. Cooper, Eds. *Proceedings of the 34th Annual Meeting of the Cognitive Science Society* (pp. 911-916) Austin, TX: Cognitive Science Society

Submitted manuscripts

- Redcay, E. &** Schilbach, L. (under review) Second-person neuroscience to elucidate the mechanisms of social interaction
- Xiao, Y.*, Geng, F., Riggins, T., **Redcay E.** (under review) Neural correlates of developing theory of mind competence in early childhood
- Chen, G., Xiao, Y.*, Taylor, P.A., Riggins, T., Geng, F., **Redcay, E.,** Cox, R.W. (under review) Handling Multiplicity in Neuroimaging through Bayesian Lenses with Hierarchical Modeling
- Moraczewski, D.*, Nketia, J.*, & **Redcay, E.** (under review) Long timescale processing is related to social-cognitive development
- Warnell, K.R.*, & **Redcay, E.** (under revision) Varied theory of mind measures do not form a unitary construct in childhood or adulthood
- Morales, S.*, Bowman, L.C., Velnoskey, K.R.*, Fox, N.A., **Redcay, E.** (under revision) An fMRI study of action observation and action execution in childhood

Presentations

Invited Talks:

- Redcay, E (2018, October) Invited speaker, Simons Center for the Social Brain Colloquium series, Massachusetts Institute of Technology
- Redcay, E (2017, October) Invited speaker, John D. Wiley Seminar Series, Waisman Center, University of Wisconsin-Madison, Selected for the Mayor Paul Memorial Lecture

- Redcay, E (2017, September) Invited speaker, George Mason University, University of Wisconsin-Madison
- Redcay, E (2016, November) Invited speaker, Cognitive Science/Systems Neuroscience Group, University of Virginia, Charlottesville, VA
- Redcay, E (2015, December) Invited speaker, Developmental Seminar, Penn State University
- Redcay, E (2015, November) Invited speaker, Social ORG, University of North Carolina, Chapel Hill, NC
- Redcay, E (2015, September) Invited speaker, Physiology Seminar, Howard University, Washington, D.C.
- Redcay, E (2015, April) Invited speaker, Developmental Brown Bag, University of Pittsburgh, Pittsburgh, PA
- Redcay, E (2014, September) Invited symposium on infant and child neuroimaging, Society for Research in Child Development Special Topic Meeting – Developmental Methodology, San Diego, CA
- Redcay, E (2014, August) Invited talk at Weill Cornell Medical College – Center for Autism and the Developing Brain, White Plains, New York
- Redcay, E (2014, June) Invited speaker for Panel on Joint Attention, Society for Philosophy and Psychology, Vancouver, Canada
- Redcay, E (2013, July) Keynote speaker at Workshop “When eye see you: Gaze and joint attention in human interaction,” Berlin, Germany
- Redcay, E (2011, September) Invited colloquium at George Mason University, Fairfax, VA
- Redcay, E (2011, July) Invited talk at National Institute of Communicative and Deafness Disorders, Bethesda, MD
- Redcay, E (2010, March) Invited colloquium at University of Washington, Seattle, Seattle, WA
- Redcay, E (2010, February) Invited talk at the Basque Center for Brain and Language, San Sebastian, Spain
- Redcay, E (2010, January) Invited colloquium at University of Denver, Denver, CO
- Redcay, E (2009, December) Invited colloquium at Stanford University, Palo Alto, CA

Conference Talks:

- Geng, F., **Redcay, E.**, Riggins, T. (2018, June). Memory and hippocampal functional connectivity during early childhood. Talk presented at the Organization for Human Brain Mapping meeting. Singapore
- Warnell, K.R.*, Sadikova, E., **Redcay, E.** (2017, April). Developmental changes in the neural bases of real-time peer interaction. Paper presented at the Society for Research in Child Development meeting. Austin, TX.
- Sand, L.A.*, **Redcay, E.**, Zeffiro, T., Bolger, D.J. (2016, May). Emotional language processing in individuals with and without autism. Talk presented at the International Meeting for Autism Research, Baltimore, MD.
- Redcay, E.**, Rice, K.*, Geng, F., Blankenship, S.*, Riggins, T. (2015, March). Amygdala-prefrontal network development during early childhood. Paper presented at the Society for Research in Child Development meeting. Philadelphia, PA
- Riggins, T., Mulligan, E., Blankenship, S.*, Rice, K.*, **Redcay, E.** (2015, March). Relations between episodic memory and hippocampal subregion volumes in early childhood. Paper presented at the Society for Research in Child Development meeting. Philadelphia, PA
- Redcay, E.**, Rice, K.*, Blankenship, S.*, Riggins, T. (2014, November). Context-dependent modulation of amygdala-prefrontal networks in early childhood. Paper presented at the Society for Neuroscience meeting. Washington DC

- Riggins, T., Blankenship, S.*, Rollins, L.*, Weiss, L., & **Redcay, E.** (2013, April). The role of the hippocampus in recollection during early childhood. Paper presented at the biennial meeting of the Society for Research on Child Development, Seattle, WA
- Redcay, E.**, O'Young, D.*, Slevc, L.R., Mavros, P.L., Gabrieli, J.D.E., Sinha, P (2012, August). Gaze cues in complex, real-world scenes direct the attention of high-functioning adults with autism. Talk presented at the Cognitive Science Society. Sapporo, Japan
- Redcay, E.**, Dodell-Feder, D.*, Mavros, P.L., Gabrieli, J.D.E., Saxe, R. (2011, May) The neural correlates of joint attention in autism spectrum disorders. Talk presented at the International Meeting for Autism Research. San Diego, CA
- Redcay, E.**, Dodell-Feder, D., Parrow, M.J., Mavros, P.L., Gabrieli, J.D.E., Saxe, R. (2009, October) The neural correlates of live social interaction. Talk presented at the Society for Neurosciences Meeting. Chicago, IL.
- Redcay, E.** & Courchesne, E. (2008, November). Resting state networks in preschool age children during natural sleep. Talk presented at the Society for Neurosciences Meeting. Washington DC.
- Redcay, E.**, Courchesne, E. (2007, June). Functional brain development in typical and autistic toddlers. Talk presented at the UCSD Cognitive Neuroscience retreat.
- Redcay, E.** & Courchesne, E. (2007, May) Delayed and deviant fMRI response to speech in 25-50-month-old children with autism spectrum disorder. Talk presented at International Meeting for Autism Research, Seattle.
- Elman, J., Borovsky, A., & **Redcay, E.** (2007, March) Computational and neural bases of word learning: Lessons from connectionist models, electrophysiology, and fMRI. Talk presented at Society for Research in Child Development. Boston.
- Redcay, E.**, Courchesne, E. (2006, April). Functional MRI studies of language development in typical and autistic toddlers. Invited talk presented at Center for Research in Language Seminar Series, San Diego, CA.
- Redcay, E.**, Haist, F., Courchesne, E. (2006, March). Frontal cortex is recruited during a pivotal period in language acquisition. Talk presented at On-line methods in Children's Language Processing Workshop, New York, NY.
- Redcay, E.**, Haist, F., Courchesne, E. (2004, November). Speech Comprehension Activates Left Temporal Areas in Young Children: An FMRI Study. Talk presented at Society for Neurosciences, San Diego, CA.

Conference Posters:

- Moraczewski, D.*, Xiao, Y.*, Warnell, K., & Redcay, E. (2018, August). Functional integration of reward and social-cognitive brain systems during a real-time social interaction. Poster presented at the annual meeting of the Society for Developmental Cognitive Neuroscience, Berlin, Germany.
- Alkire, D.*, **Redcay, E.** (2018, August). Probing theory of mind in typical development and autism spectrum disorder using a socially interactive fMRI task. Poster presented at the Flux Congress, Berlin, Germany.
- Xiao, Y.*, Alkire, D.*, Moraczewski, D*. & **Redcay, E.** (2018, June). Functional connectivity dynamics during social interaction in middle childhood. Poster presented at the Meeting of the Organization for Human Brain Mapping, Singapore.
- Morales, S.*, Bowman, L. C., Velnoskey, K. R.*, Fox, N. A., & **Redcay, E.** (2018, May). An fMRI study of action observation and action execution in childhood. Poster presented at FLUX Society Satellite Conference, Chapel Hill, NC.
- Warnell, K. R.*, Maniscalco, S.*, Schaefer, K. A., Ifesinachukwu, J. K., Menssor, S., Kirby, L. A.*, & **Redcay, E.** (2018, May). Relations between spontaneous and explicit mentalizing in

- autism and typical development. Poster presented at the annual meeting of the International Society for Autism Research, Rotterdam, Netherlands.
- Kirby, L.A.*, Sadikova, E.*, Warnell, K.R.*, Pecukonis, M.*, Moraczewski, D.*, **Redcay, E.** (2018, May). Investigating social reward circuitry during real-time peer interaction in ASD. Poster presented at the International Meeting for Autism Research, Rotterdam, Netherlands.
- Xiao, Y*., Geng, F., Riggins, T., Chen, G. & **Redcay, E.** (2018, May). Neural correlates of developing theory of mind competence in early childhood. Poster presented at the Social & Affective Neuroscience Society, Brooklyn, New York.
- Rosenthal, T.*, Alkire, D.*, Warnell, K. R., & **Redcay, E.** (2018, May). Social anxiety and mentalizing in middle childhood: Exploring brain–behavior correlations in a social-interactive context. Poster presented at the Social & Affective Neuroscience Society Annual Meeting, Brooklyn, NY.
- Alkire, D. *, Levitas, D. *, Warnell, K. R. *, & **Redcay, E.** (2017, November). Social interaction recruits mentalizing and reward systems in middle childhood. Poster presented at the Society for Social Neuroscience Annual Meeting, Washington, DC.
- Warnell, K. R., Visser, M., & Redcay, E. (2017, October). Individual differences in children’s mind-mindedness: Effects of relationship type, age, and social cognitive ability. Poster presented at the biennial meeting of the Cognitive Development Society, Portland. OR.
- Alkire, D.A.*, Levitas, D.*, Warnell, K.R.*, & **Redcay, E.** (2017, September). Social Interaction Recruits Mentalizing and Reward Systems in Middle Childhood. Poster presented at the Flux Congress, Portland, OR
- Moraczewski, D. *, Nketia, J. *, **Reday, E.** (2017, September). Cortical temporal hierarchy and social-cognitive comprehension in middle childhood. Poster presented at the annual Flux Congress. Portland, OR.
- Kirby, L.C. *, Sadikova, E. *, Warnell, K.R. *, Pecukonis, M.G. *, Moraczewski, D. *, **Redcay, E.** (2017, May). The Neural Bases of Social Motivation in Autism Spectrum Disorder during a Real-Time Peer Interaction. Poster presented at the International Meeting for Autism Research. San Francisco, CA.
- Sadikova, E.*, Kirby, L.C.*, Pecukonis, M.G.*, Warnell, K.R.*, **Redcay E.** (2017, May). Investigating developmental relations between social reward, social cognition, and symptom severity in ASD. Poster presented at the International Meeting for Autism Research. San Francisco, CA.
- Pecukonis, M. *, Kirby, L.C*, Sadikova, E. *, **Redcay, E.** (2017, May). Exclusion bias in ASD fMRI studies: the effect of participant anxiety on scan motion artifact. Poster presented at the International Meeting for Autism Research. San Francisco, CA.
- Warnell, K.R. *, Maniscalco, S. *, Hotz, L. *, Baker, S. *, Kirby, L.C. *, Milhorn, H. *, Pecukonis, M. *, Sadikova, E. *, Yi, R., **Redcay, E.** (2017, May). Social discounting in autism spectrum disorder. Poster presented at the International Meeting for Autism Research. San Francisco, CA.
- Kirby L.C. *, Warnell, K.R. *, Sadikova, E. *, Pecukonis, M. *, Moraczewski, D. *, **Redcay, E.** (April, 2017). The neural mechanisms of social motivation in autism spectrum disorder during a real-time peer interaction. Poster presented at the Society for Research in Child Development meeting. Austin, TX.
- Moraczewski, D. *, Nketia, J. *, **Redcay, E.** (April, 2017) The influence of timescale on brain synchrony and social-cognitive comprehension during naturalistic viewing in middle childhood. Poster presented at the Society for Research in Child Development meeting. Austin, TX.
- Smith, E., Condy, E., Thurm, A., Anderson, A., Shumway, S., Swineford, L., Gandjbakche, A., **Redcay, E.** (2017, April). Speech and gestures alter the fNIRS signal in prefrontal cortex in toddlers. Poster presented at the Society for Research in Child Development meeting. Austin, TX.

- Warnell, K.R.*, Pecukonis, M., **Redcay, E.** (2017, April). Effects of age, sex, and informant on the relation between amygdala volume and anxiety in childhood. Poster presented at the Society for Research in Child Development meeting. Austin, TX.
- Geng, F., **Redcay, E.**, Riggins, T. (2017, April). Hippocampal functional connectivity during rest in early childhood: the interplay of age and memory. Poster presented at the Society for Research in Child Development meeting. Austin, TX.
- Bowman, L.C., Thorpe, S.G., Cannon, E.N., **Redcay, E.**, Fox, N. (2017, April). Representational and social-cognitive correlates of children's sensorimotor EEG: A novel model for theory of mind. Poster presented at the Society for Research in Child Development meeting. Austin, TX.
- Moraczewski, D.* and **Redcay, E.** (2016, September) *Modulation of the default mode network during naturalistic viewing: A developmental study*. Poster presented at the Flux Congress, St. Louis, Missouri
- Sand, L.A.*, Zeffiro, T., Samson, F., **Redcay, E.**, Bolger, D.J. (2016, May) *Hemispheric differences in auditory complexity processing in ASD*. Poster presented at the International Meeting for Autism Research, Baltimore, MD.
- Moraczewski, D.* and **Redcay, E.** (2016, May) *Atypical functional heterogeneity of the right temporo-parietal junction in autism spectrum disorders*. Poster presented at the International Meeting for Autism Research, Baltimore, MD.
- Rice, K.*, Sadikova, E.*, **Redcay, E.** (2016, April) *Let's chat: Developmental neural bases of social motivation during real-time peer interaction*. Poster presented at the Cognitive Neuroscience Society. New York, NY.
- Moraczewski, D.*, Anderson, L.C.*, Rice, K.*, **Redcay, E.** (2016, April) *Anticipation of a live social reward modulates network integration in middle childhood*. Poster presented at the Cognitive Neuroscience Society. New York, NY.
- Anderson, L.C.*, Rice, K.*, Velnoskey, K.*, & **Redcay, E.** (2015, October) *Relation between Neural Selectivity for Biological Motion in Middle Childhood and Individual Differences in Behavior*. Poster presented at the Cognitive Development Society. Columbus, Ohio
- Rice, K.*, Anderson, L.C.*, Velnoskey, K.*, **Redcay, E.** (2015, October) *Basic Social Perception Captures Variability in Social Cognition in Middle Childhood*. Poster presented at the Cognitive Development Society. Columbus, Ohio
- Moraczewski, D.*, & **Redcay, E.*** (2015, September) *Functional Specialization of the Right Temporo-Parietal Junction During Early Childhood*. Poster presented at the Flux Congress (International Society for Integrative Developmental Cognitive Neuroscience), Leiden, Netherlands
- Anderson, L.C.*, Wood, E.J., **Redcay, E.** Newman, R. *How multitalker environments affect speech understanding in autism*. (2015, May). Poster presented at the International Meeting for Autism Research, Salt Lake City, Utah.
- Rice, K.*, Anderson, L.C.*, Velnoskey, K.*, **Redcay, E.** (2015, March). *Linking basic social perception, theory of mind, and social behavior in middle childhood*. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Anderson, L.C.*, Rice, K.*, Velnoskey, K.*, **Redcay, E.** (2015, March). *Relation between neural selectivity for biological motion in middle childhood and individual differences in behavior*. Poster presented at the Society for Research in Child Development Biennial Meeting, Philadelphia, PA.
- Rice, K.*, Velnoskey, K.*, **Redcay, E.** (2015, March). *Developmental neural sensitivity to real-time social interactions*. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Velnoskey, K.*, Ludlum, R.*, Kanwal, S.*, **Redcay, E.** (2014, November). *Joint attention modulates posterior superior temporal sulcus (pSTS) activity and subsequent recognition*

- memory for cued objects*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Anderson, L.C.*, Rice, K.*, **Redcay, E.** (2014, November). *White matter integrity in the uncinate fasciculus correlates with face-based theory of mind abilities in 4 but not 6 year olds*. Poster presented at the Society for Neuroscience Annual Meeting, Washington, D.C.
- Anderson, L.C.*, Rice, K.*, **Redcay, E.** (2014, November). *White matter integrity in the uncinate fasciculus correlates with face-based theory of mind abilities in 4 but not 6 year olds*. Poster presented at the Society for Social Neuroscience Annual Meeting, Washington, D.C.
- Rice, K.*, Velnoskey, K.*, **Redcay, E.** (2014, November). *Language in social interactions modulates mentalizing networks*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Redcay, E.**, Velnoskey, K.*, Rowe, M., (2014, July). *Shared neural systems for language and gesture comprehension*. Paper presented at the International society for gesture studies, San Diego, CA
- Redcay, E.**, Velnoskey, K.*, Rowe, M., (2014, April). *Shared neural systems for language and gesture comprehension*. Paper presented at the Cognitive Neuroscience Society meeting, Boston, MA
- Rice, K.*, & **Redcay, E.** (2014, April). *Real-time social interaction modulates activity in the mentalizing network during a novel social prediction task*. Paper presented at the Cognitive Neuroscience Society meeting, Boston, MA
- Sand, L.*, **Redcay, E.**, Bolger, D.J. (2014, April) *Autism spectrum measures predict response to affective language in healthy young adults*. Paper presented at the Cognitive Neuroscience Society meeting, Boston, MA
- Rice, K.*, and **Redcay, E.** (2013, October) *Varied theory of mind measures do not form a unitary construct in early childhood or adulthood*. Poster presented at the Cognitive Development Society conference. Memphis, Tennessee
- Sand, L.A.*, **Redcay, E.**, Bolger, D.J. (2013, May). *Interaction of emotional and language networks during verbal emotional interference*. Poster presented at the American Psychological Society conference. Washington, D.C.
- Rice, K.*, Viscomi, B.*, Riggins, T., **Redcay E.** (2013, April). *Performance on a novel spontaneous theory of mind task correlates with surface area and cortical thickness of social brain regions*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Blankenship, S.*, **Redcay, E.**, Riggins, T. (2013, April). *Influence of hippocampal volume and connectivity with the prefrontal cortex on memory ability in early childhood*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Blankenship, S.*, **Redcay, E.**, Riggins, T. (2013, April). *Influence of hippocampal volume and connectivity with the prefrontal cortex on memory ability in early childhood*. Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
- Redcay E.**, Rice, K.*, Viscomi, B.*, Riggins, R. (2013, April). *Using functional connectivity MRI to study advanced theory of mind in 6-year-old children*. Paper presented at the biennial meeting of the Society for Research on Child Development, Seattle, WA.
- Rice, K.*, Viscomi, B.*, Riggins, R., **Redcay E.** (2013, April). *Size of Social Brain Regions Correlates with Social Cognitive Ability in Early Childhood*. Paper presented at the biennial meeting of the Society for Research on Child Development, Seattle, WA.
- Rice, K.*, & **Redcay, E.** (2013, April). *Multiple Domains of Theory of Mind: Varied Theory of Mind Measures are not Significantly Related in Early Childhood*. Paper presented at the biennial meeting of the Society for Research on Child Development, Seattle, WA
- O'Young, D.R.*, **Redcay, E.**, Mavros, P.L., Moran, J.M., Cloutier, J., Gabrieli, J.D.E. (2011, November). *The role of attention in face processing in autism*. Poster presented at the Society for Social Neuroscience.

- Redcay, E.**, Dodell-Feder, D.*, Kleiner, M., Saxe, R. (2011, November). *Look at this: The neural correlates of joint attention during a face-to-face communicative game*. Poster presented at the Society for Social Neuroscience.
- Redcay, E.**, Dodell-Feder, D., Pearrow, M.J., Kleiner, M., Mavros, P.L., Gabrieli, J.D.E., Saxe, R. (2010, April). *Do you see what I see? The neural correlates of joint attention*. Poster presented at the Cognitive Neuroscience Society meeting.
- Cloutier, J., O'Young, D.R.*, Meagher, T., **Redcay, E.**, Moran, J.M., Ambady, N., Gabrieli, J.D.E. (2010, April). *The neural substrate of person perception in adolescents with ASD: The influence of likability and dominance*. Poster presented at the Cognitive Neuroscience Society meeting.
- O'Young, D.R.*, Cloutier, J., **Redcay, E.**, Meagher, T., Mavros, P.L., Moran, J.M., Vogel-Farley, V., Nelson, C.A., Gabrieli, J.D.E. (2010, April). *The neural substrates of emotion perception in adolescents with ASD*. Poster presented at the cognitive neuroscience society meeting.
- Redcay, E.**, Cloutier, J., Meagher, T., O'Young, D.R., Joseph, R., Mavros, P.L., Vogel-Farley, V., Tager-Flusberg, H., Nelson, C.A., Gabrieli, J.D.E. (2010, May). *The neural correlates of gaze perception in adolescents with Autism Spectrum Disorder (ASD)*. Poster presented at the International Meeting for Autism Research.
- Redcay, E.** & Courchesne, E. (2009, July) *Identification of resting-state networks during early development*. Poster presented at the Berkeley meeting on Neurocognitive Development, Berkeley, CA.
- Redcay, E.** & Courchesne, E. (2007, May) *Differential response to auditory and visual stimuli during sleep fMRI in 3-4 year old children*. Presented at Cognitive Neuroscience Society meeting, New York, NY.
- Redcay, E.** & Courchesne, E. (2005, November) *An immature pattern of brain activity in response to speech in autistic 2-3 year olds: A preliminary fMRI study*. Poster presented at Society for Neurosciences (SfN), Washington D.C.
- Kennedy, D.P., **Redcay, E.**, Courchesne, E. (2004, May). *Cognition, Emotion, and the Resting State: An fMRI Study of Neurofunctional Abnormalities in Autism*. Poster presented at International Meeting for Autism Research (IMFAR), Sacramento.
- Redcay, E.** & Courchesne, E. (2004, May) *Brain Growth Differences in Autism from Birth to Adulthood*. Poster presented at IMFAR, Sacramento.
- Redcay, E.**, Kennedy, D.P., Courchesne, E. (2004, April) *Differential Effects of Emotion and Cognitive Processing on the Resting Network*. Poster presented at Cognitive Neuroscience Society (CNS), San Francisco.

Ad Hoc Reviewer

Archives of General Psychiatry
 Autism
 Autism Research
 Brain Research
 Biological Psychiatry
 Brain Research
 Cerebral Cortex
 Cognitive, Affective, and Behavioral Neuroscience
 Consciousness & Cognition
 Developmental Neuropsychology
 Developmental Cognitive Neuroscience
 Experimental Brain Research
 Frontiers

Human Brain Mapping
 International Journal of Developmental Neuroscience
 Journal of Child Psychology & Psychiatry
 Journal of Experimental Psychology – General
 Journal of Neurodevelopmental Disorders
 Journal of Neuroscience
 Neuropsychologia
 Neuroreport
 Neuroscience Research
 Neuroscience & Biobehavioral Reviews
 Proceedings of the National Academy of Sciences
 PloS One
 Social Cognitive and Affective Neuroscience
 Social Neuroscience

Grant Reviews:

Autism Science Foundation
 NIH Child Psychopathology & Developmental Disabilities Study Section, Ad Hoc Reviewer
 NSF (Cognitive Neuroscience Program & Developmental Science Program)
 French National Research Agency
 Israeli Science Foundation
 Wellcome Trust/DBT India Alliance
 Yale Research Initiative

Teaching

2014,2016, 2017 **Assistant Professor**, University of Maryland, College Park
Advanced Developmental Seminar (Graduate)
 2013,2016, 2017x2 **Assistant Professor**, University of Maryland, College Park
Developmental Psychology (undergraduate)
 2011 **Assistant Professor**, University of Maryland, College Park
Developmental of the Social Brain (graduate)
 2011-2013 **Assistant Professor**, University of Maryland, College Park
 2015 *Developmental Cognitive Neuroscience (undergraduate)*
 2008 **Teaching Fellow**, Harvard University
Interventions From the Brain: From Neurobiology to Ethics

Students & Trainees

Masters:

Chair

Katherine Rice, Department of Psychology (Developmental), Chair, 2013-2014
 Laura Anderson, Department of Psychology (Clinical), Chair, 2014-2015

Member

Leslie Rollins, Department of Psychology (Developmental), member, 2011-2012
 Bonnie Brett, Department of Psychology (Developmental), member, 2013
 Brandon Terrizzi, Department of Psychology (Developmental), member, 2014-2015
 Sarah Blankenship, Neuroscience and Cognitive Sciences Program, member, 2013-2015
 Jacquelyn Gross, Department of Psychology (Developmental), member, 2015

Rachael Tillman, Department of Psychology (Clinical), member, 2014-2016
 Kelsey Canada, Department of Psychology (Cognitive), member, 2016-current

Doctoral:

Chair

Katherine Rice, Department of Psychology (Developmental), Qualifying Exam Committee, Chair, 2014
 Dustin Moraczewski, Neuroscience and Cognitive Sciences Program, NACS First Year Committee, Chair, 2014-2015
 Katherine Rice, Department of Psychology (Developmental), Doctoral Dissertation Committee, Chair, 2015-2016
 Dustin Moraczewski, Neuroscience and Cognitive Sciences Program, Qualifying Exam Committee, Chair, 2016
 Laura Anderson, Department of Psychology (Clinical), Doctoral Dissertation Committee, Chair, 2016-current
 Diana Alkire, Neuroscience and Cognitive Sciences Program, NACS First Year Committee, Chair, 2016-current
 Dustin Moraczewski, Neuroscience and Cognitive Sciences Program, Dissertation Committee, Chair, 2016
 Kathryn McNaughton, Neuroscience and Cognitive Sciences Program, NACS First Year Committee, Chair, 2018-current
 Junaid Merhcant, Neuroscience and Cognitive Sciences Program, NACS First Year Committee, Chair, 2018-current

Member

Sarah Gerson, Department of Psychology (Developmental), Dissertation Committee, member, 2011
 Brandi Stupica, Department of Psychology (Developmental), Dissertation Committee, member, 2012
 Katherine Ehrlich, Department of Psychology (Developmental), Dissertation Committee, member, 2012
 Leslie Rollins, Department of Psychology (Developmental), Qualifying Exam Committee, member, 2013
 Leslie Rollins, Department of Psychology (Developmental), Dissertation Committee, member, 2013-2014
 Laura Sherman, Department of Psychology (Developmental), Dissertation Committee, member, 2012-2013
 Nuria Abdul-Sabur, Neurosciences and Cognitive Sciences Program, Dissertation Committee, member, 2012-2013
 Jason Jones, Department of Psychology (Developmental), Dissertation Committee, member, 2014-2015
 Jason Jones, Department of Psychology (Developmental), Qualifying Exam Committee, member, 2014
 Moon Choi, Neurosciences and Cognitive Sciences Program, Dissertation Committee, member, 2013-2014
 Moon Choi, Neurosciences and Cognitive Sciences Program, NACS Advisory Committee, member, 2012-2014
 Moon Choi, Neurosciences and Cognitive Sciences Program, NACS Qualifying Exam Committee, member, 2013
 Bonnie Brett, Department of Psychology (Developmental), Qualifying Exam Committee, member, 2014

Bonnie Brett, Department of Psychology (Developmental), Dissertation Committee member, 2015-current
 Lesley Sand, Department of Human Development and Quantitative Methods, Dissertation Committee, member, 2013-2015
 Molly Hyer, Neuroscience and Cognitive Sciences Program, Qualifying Exam Committee, member, 2014
 Brandon Terrizzi, Department of Psychology (Developmental), Qualifying Exam Committee, member, 2016
 Mehrnoosh Ahmadi, Neurosciences and Cognitive Sciences Program, NACS Advisory Committee, 2014-current
 Mehrnoosh Ahmadi, Neurosciences and Cognitive Sciences Program, NACS First Year Project Committee, member, 2014-2015
 Kathryn Yoo, Neuroscience and Cognitive Sciences Program, Dissertation Committee, member, 2014-2016
 Maureen Bowers, Neuroscience and Cognitive Sciences Program, First Year Project Committee, member, 2015-2016
 Jacquelyn Gross, Department of Psychology (Developmental), Qualifying Exam Committee, member, 2016
 Kristi Bradshaw, Department of Psychology (Clinical), Dissertation committee, member, 2015-2017
 Brandon Terrizzi, Department of Psychology (Developmental), Dissertation committee, member, 2016-2017
 Srikanth Padmala, Neuroscience and Cognitive Sciences Program, Qualifying Exam Committee, member, 2016
 Taween Ho, Neuroscience and Cognitive Sciences Program, NACS First Year Committee, member, 2016-current
 Srikanth Padmala, Neuroscience and Cognitive Sciences Program, Dissertation Committee, member, 2016-2017
 Heather Caryl, Howard University, External Member, 2017
 Maureen Bowers, Neuroscience and Cognitive Sciences Program, Qualifying Exam Committee, member, 2017

Post-baccalaureate:

Daniel O'Young (Ph.D. program at Northwestern), 2011-2012
 Brieana Viscomi, 2012-2013
 Simren Kanwal (Masters program at Tufts), 2013-2014
 Kayla Velnoskey (Ph.D. program at Yale), 2013-2015
 Stephanie Goncalves, 2014-2016
 Dan Levitas, 2015-current
 Joana Romero, 2015-current
 Ruth Ludlum, 2016 (Masters program at Rutgers)
 Sydney Maniscalco, 2016-2018
 Erin Brine-Doyle, 2017-2018
 Aiste Cechaviciute, 2017-current
 Adnan Rashid, 2018-current
 Deena Shariq, 2018-current
 Jacqueline Thomas, 2018-current

Post-doctoral:

Yaqiong Xiao, 2017-current
 Santiago Morales Pamplona (co-mentor), 2017-current

Heather Yarger, 2018-current
 Sarah Dziura, 2018-current

Professional Memberships

International Meeting for Autism Research
 Society for Neuroscience
 Society for Research in Child Development
 Cognitive Neuroscience Society
 Cognitive Development Society
 Society for Social Neuroscience
 Cognitive Science Society
 Flux Society
 *not all current

Service

2017	Undergraduate Studies Committee, Psychology
2017	Society for Social Neuroscience (S4SN) Program Committee
2016-current	NACS-Fest Committee Chair
2017	GEMSTONE Team STRIDE discussant
2016-2017	Quantitative Faculty Search Committee
2016-2017	Interagency Autism Coordinating Committee Working Group 2
2016-current	Developmental Science Field Committee, Executive Committee
2016	NIH CPDD Study Section, Ad hoc reviewer
2012-2017	Graduate Committee, Psychology
2014-current	MNC Safety committee
2015	All S.T.A.R. committee, BSOS
2011-2013	Education Committee for the Maryland Neuroimaging Center
2012-2014	Expert advisor for TEAM RITALIN Gemstone program
2012-2013	NSF ADVANCE Department Liaison
2013	BBS programmer/data analyst search committee
2013	MNC technologist search committee
2013	Co-organized Maryland Summer Institute on Developmental Cognitive Neuroscience
2013	Psychology adviser for TUSK (Teaching Underrepresented Sciences to Kids)
2012	SRCD Dissertation award application review
2012	Co-organized Maryland Summer Institute on Developmental Social Neuroscience
2012	Summer Research Initiative application review
2012	NIH RDOC criteria committee member for social systems
2011	Graduate Task Force, University of Maryland