

Rebecca E. Martin, Ph.D.
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Research Experience

Hartley Lab, New York University, New York, NY (2017-Present)

Postdoctoral Fellow

PI: Catherine Hartley, Ph.D.

Social Cognitive and Affective Neuroscience Lab, Columbia University, New York, NY (2011-2017)

Graduate Student

PI: Kevin Ochsner, Ph.D.

Gabrieli Laboratory for Cognitive and Affective Neuroscience, MIT, Cambridge, MA (2008 - 2011)

Research Assistant

PI: John Gabrieli, Ph.D.

Bunge Cognitive Control & Development Lab, UC Berkeley, Berkeley, CA (Summer 2008)

Research Assistant

PI: Silvia Bunge, Ph.D.

Education

Ph.D. (2017) Columbia University, Psychology

Advisor: Kevin Ochsner

Dissertation: Influencing emotions: how brain development and social factors shape affective responses

NRSA Cosponsors: Daphna Shohamy, Nim Tottenham

M.Ed. (2009) Harvard Graduate School of Education, Mind, Brain, and Education

M.A. (2006) University of California Santa Cruz, Secondary School Social Science Education

B.A. (2003) New York University, History

Awards

Postdoctoral NRSA Fellowship (F32 HD097873-01), *Charting the role of variability in learning across development*, 2019-2021

Leon Levy Neuroscience Fellowship, 2018-2020

Neurohackademy Summer Institute Fellow, 2018

Institutional National Research Service Award (T32: MH019524, NYU Center for Neural Science NIMH training program in Learning, Memory, Development and Plasticity), 2017-2018

Predoctoral NRSA Fellowship (F31 MH107119-01A1), *Social Influence on Emotion in Adolescence*, 2015-2017

Edward E. Smith Memorial Award in Cognitive Neuroscience, 2014

Faculty Fellowship, Columbia University, 2011-2012, 2013-2014

Leo Rubinstein Endowed Fellowship, 2012-2013

Columbia Psychology Department Travel Award 2011, 2013

Sackler Summer Institute at Cornell University Fellow, 2013

University of Maryland Summer Institute on Developmental Neuroscience Fellow, 2012

Harvard Graduate School of Education Class Commencement Marshal

Harvard Graduate School of Education Student Government Association Senator
UC Santa Cruz - only master's student to attain teaching assistant position in Evolution of Education course
New York University - Deans List and Scholarship five out of six terms

Publications

Martin, R.E., Hartley, C.A. (in prep). Characterizing patterns of variability related to strategy shifts across development.

Martin, R. E., Weber, J., Kosciuk, T. R., Cunningham, W. A., & Ochsner, K. N. (submitted). Social influence modulates neural and behavioral reactions to emotional scenes.

Martin, R. E., Silvers, J. A., Hardi, F., Stephano, T., Helion, C., Insel, K., Franz, P. J., Ninova, E., Weber, J., Mischel, W., Casey, B.J., & Ochsner, K. N. (in prep). Longitudinal changes in brain function and structure associated with emotion regulation and reactivity across development.

Helion, C., Silvers, J. A., Powers, A., Dreyfuss, M., Jacoby, N., Insel, C., Martin, R., Weber, J., Mischel, W., Casey, B. J., & Ochsner, K. N. (invited revision: JEP:G). Comparing strategies for regulating negative emotions across development.

Martin, R. E., Silvers, J. A., Hardi, F., Stephano, T., Helion, C., Insel, C., Franz, P.J., Ninova, E., Lander, J.P., Mischel, W., Casey, B.J., Ochsner, K. N. (2019). Longitudinal changes in brain structures related to appetitive reactivity and regulation across development. *Developmental Cognitive Neuroscience*, 38, 100675.

Martin, R. E., Villanueva, Y., Stephano, T., Franz, P. J., & Ochsner, K. N. (2018). Social influence shifts valuation of appetitive cues in early adolescence and adulthood. *Journal of Experimental Psychology: General*, 147(10), 1521–1530.

Silvers, J. A., Insel, C., Powers, A., Franz, P., Helion, C., Martin, R. E., Weber, J., Mischel, W., Casey, B.J., Ochsner, K. N. (2016). The transition from childhood to adolescence is marked by a general decrease in amygdala reactivity and an affect-specific ventral-to-dorsal shift in medial prefrontal recruitment. *Developmental Cognitive Neuroscience*, 10, 128-137.

Martin, R. E., & Ochsner, K. N. (2016). The neuroscience of emotion regulation development: implications for education. *Current Opinion in Behavioral Sciences*, 142-148.

Silvers, J. A., Insel, C., Powers, A., Franz, P., Helion, C., Martin, R. E., Weber, J., Casey, B.J., Mischel, W., & Ochsner, K. N. (2016). vIPFC–vmPFC–amygdala interactions underlie age-related differences in cognitive regulation of emotion. *Cerebral Cortex*, 1-13.

West, M. R., Kraft, M. A., Finn, A. S., Martin, R. E., Duckworth, A. L., Gabrieli, C. F. O., & Gabrieli, J. D. E. (2015). Promise and paradox: measuring students' non-cognitive skills and the impact of schooling. *Educational Evaluation and Policy Analysis*, 38 (1), 148-170.

Saygin, Z. M., Osher, D. E., Koldewyn, K., Martin, R. E., Finn, A., Saxe, R., Gabrieli, J. D. E., & Sheridan, M. (2015). Structural connectivity of the developing human amygdala. *PLoS ONE*, 10(4).

Finn, A. S., Kraft, M. A., West, M. R., Leonard, J. A., Bish, C. E., Martin, R. E., Sheridan, M.A., & Gabrieli, J. D. E. (2014). Cognitive skills, student achievement tests, and schools. *Psychological Science*, 25(3), 736–744.

Sheridan, M. A., Kharitonova, M., Martin, R. E., Chatterjee, A., & Gabrieli, J. D. E. (2014). Neural substrates of the development of cognitive control in children ages 5–10 years. *Journal of Cognitive Neuroscience*, 1–11.

Kharitonova, M., Martin, R. E., Gabrieli, J. D. E., & Sheridan, M. A. (2013). Cortical gray-matter thinning is associated with age-related improvements on executive function tasks. *Developmental Cognitive Neuroscience*, 6, 61–71.

Martin, R. E., & Groff, J. S. (2011). Collaborations in mind, brain, and education: an analysis of researcher–practitioner partnerships in three elementary school intervention studies. *Mind, Brain, and Education*, 5(3), 115–120.

Invited Talks and Conference Presentations

Martin, R.E. & Pollack, C. (March, 2019). *Applications of cognitive science research: contributions to education across levels of analysis*. Symposium chaired at the Society for Research on Child Development Biennial Meeting, Baltimore, MD.

Martin, R.E. (October, 2016). *Neural structures supporting regulation of craving across development*. Talk presented at the New York Social and Affective Neuroscience Meeting, New York, NY.

Martin, R.E. (June, 2016). *Social influence on emotion in adolescence and adulthood*. Talk presented at the Sackler Institute for Developmental Neurobiology at Cornell Weill Medical College, New York, NY.

Martin, R.E., Weber, J., & Ochsner, K.N. (September, 2015). *Social influence shapes neural and behavioral reactions to emotional scenes*. Talk presented at the New York Social and Affective Neuroscience Meeting, New York, NY.

Martin, R.E., & Ochsner, K.N. (September, 2014). *Peer feedback enhances food craving more for adolescents than adults*. Talk presented at the Flux Congress Annual Meeting, Los Angeles, CA.

Martin, R.E. (March, 2014). *I want what you want: social influence on food craving in adolescence*. Paper presented at the Society for Research on Adolescence Biennial Meeting, Austin, Tx.

Posters

Martin, R.E. (2018, August). *Characterizing patterns of variability related to strategy shifts in learning across development*. Poster session presented at the Flux Congress Annual Meeting, Berlin, DE.

Martin, R.E. (2017, October). *The neuroscience of emotion regulation development: implications for education*. Poster session presented at the New York University Mind, Brain, and Education Collaboratory, New York, NY.

Martin, R.E., Weber, J., & Ochsner, K.N. (2016, November). *Social influence shapes neural and behavioral responses to emotional scenes*. Poster session presented at the Society for Neuroscience 42nd Annual Meeting, San Diego, CA.

Martin, R.E., Silvers, J.A., Insel, C. Powers, A., Casey, B.J., Mischel, W., & Ochsner, K.N. (2016, September). *Lateral prefrontal cortex supports the relationship between age and regulation of craving*. Poster session presented at the Flux Congress Annual Meeting, St. Louis, MO.

Martin, R.E., & Ochsner, K.N. (2016, April). *Social influence shapes neural and behavioral reactions to emotional scenes*. Poster Session presented at the Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY.

Martin, R.E., & Ochsner, K.N. (2015, May). *Social influence shapes neural and behavioral reactions to emotional scenes*. Poster Session presented at the Association for Psychological Science 27th Annual Convention, New York, NY.

Martin, R.E., & Ochsner, K.N. (2015, April). *I feel the same way: neural mechanisms underlying social influences on emotion*. Poster Session presented at the 8th Annual Social and Affective Neuroscience Meeting, Boston, MA.

Martin, R.E., Villanueva, Y., Goraya, S., Franz, P.J., & Ochsner, K.N. (2014, April). *The effect of social influence on emotional reactivity*. Poster Session presented at the Cognitive Neuroscience Society 21st Annual Meeting, Boston, MA.

Martin, R.E., Goraya, S., Villanueva, Y., & Ochsner, K.N. (2013, September). *Social regulation of craving for food in adolescence and adulthood*. Poster session presented at the inaugural Flux Congress Annual Meeting, Pittsburgh, PA.

Martin, R.E., Franz, P.J., & Ochsner, K.N. (2013, April). *Social influence regulates emotional reactivity*. Poster session presented at the Social and Affective Neuroscience Annual Meeting, San Francisco, CA.

Martin, R.E., Silvers, J.A., Insel, C. Powers, A., Mehta, N., Casey, B.J., Mischel, W., & Ochsner, K.N. (2012, October). *Development of ventral lateral and medial prefrontal cortex predicts emotional reactivity and regulation of appetitive food cues*. Poster session presented at the Society for Neuroscience 42nd Annual Meeting, New Orleans, LA.

Martin, R.E., Chatterjee, A.M., Gabrieli, J.D.E., & Sheridan, M.A. (2011, November). *The development of executive function in young children: an fMRI study*. Poster session presented at the Society for Neuroscience 41st Annual Meeting, Washington D.C.

Martin, R.E., Ofen, N., Chai, J. & Gabrieli, J.D.E. (2010, April). *Relationships between development, cortical thickness and source memory*. Poster Session presented at the Cognitive Neuroscience Society 18th Annual Meeting, San Francisco, CA.

Professional Affiliations

Society for Neuroscience, Social and Affective Neuroscience Society, Cognitive Neuroscience Society, Society for Research in Child Development, Society for Research in Adolescence, Association for Psychological Science, International Mind, Brain and Education Society

Ad Hoc Reviewer

Neuropsychologia, Motivation and Emotion, Child Development

Teaching Experience

Columbia University, New York, NY (2011-2016)

Teaching Fellow, Department of Psychology

Courses: Developmental Psychology, Tottenham (2015); Experimental Psychology: Social Cognition and Emotion, Ochsner (2013, 2014); Memory and Stress, Metcalfe (2012); Mind, Brain, and Behavior, Nautiyal (2011)

Columbia University, New York, NY (2014-2017)

Lead Instructor, Summer Programs for High School Students

Course: Science of Psychology

Harvard University, Cambridge, MA (2009)

Senior Thesis Advisor, Mind, Brain, and Behavior Program

Berkeley High School, Berkeley, CA (2006-2008)

Teacher, Department of Humanities and Social Sciences

Courses: United States History, Women's Studies, Sociology and Anthropology, Human Geography, World History, Ancient Civilizations

University of California Santa Cruz, Santa Cruz, CA (2006)

Teaching Fellow, Department of Education

Course: Evolution of Education.

International School of the Peninsula, Palo Alto, CA (2005)

Substitute Teacher

Santa Clara Synchronized Swim Club, Santa Clara, CA (2003-2005)

Head Coach, Junior Age Group Team

Guest Lectures

Developmental Psychology and the Teen Brain, Columbia Summer High School Program (2018, 2019)

Introduction to Neuroanatomy and the Teen Brain, City and Country School, (2018)

The Science of Happiness, Columbia Summer High School Program, (2016, 2017)

Research Methods, Research Methods Course, Columbia University, New York, NY, (2014, 2015, 2016)

Drugs and the Brain, Columbia Grammar and Prep School, New York, NY, (2013)

Neuroanatomy, Cognitive Neuroscience Course, Teachers College at Columbia University, New York, NY, (2012, 2013)

Brain Imaging Methods, New York Brain Bee, Columbia University, New York, NY, (2012)

Emotion and the Brain, Mind, Brain, and Behavior Course, Columbia University, New York, NY (2011)

Neuroanatomy, St. Peter School, Cambridge, MA, (2010, 2011)

Mentoring

Columbia and Barnard Honors Projects: Projects: Julia Chen, Lior Zwanziger

Teachers College Master's Research Assistants: Theodore Stephano, Felicia Hardi, Suneet Goraya

Post-Baccalaureate Research Assistants: Peter Franz, Yvette Villanueva, Lindsay Sturm, Athena Bochanis, Sarah Dahlen, Emilia Ninova, Eileen Hartnett

Undergraduate Research Assistants: Peter Hook, Kaila Manca, Sara Sakowitz, Shraddha Nair, May Levin

High School Student Projects and Research Internships: Stefanie Esposito, Celine Lee, Lauren Cole

Public Outreach

Scientist Action and Advocacy Network, <http://scaan.net/> (2017-present)

Pro bono scientist. Collaborated on policy brief for Raise the Age NY, a campaign to increase the age youth may be tried in criminal courts. Currently working on brief to protect youth from waiving Miranda rights.

Columbia University Neuroscience Outreach Group, New York, NY (2011-2016)

Volunteer Lecturer (Introduction to Neuroanatomy, Drugs and the Brain, Brain Imaging Methods), Middle and High School Curriculum Designer, World Science Festival Volunteer

The School at Columbia University Science Expo, New York, NY, (2012, 2014, 2016, 2018)

Designed cognitive neuroscience exhibits and presentations, volunteer

Other Publications

Martin, R.E., (2019, April). Serial obsessions.

Cooper Square Review. Retrieved from <http://coopersquarereview.org/post/serial-obsessions/>

Martin, R.E., (2019, April). When yelling is the best medicine.

Cooper Square Review. Retrieved from <http://coopersquarereview.org/post/when-yelling-is-the-best-medicine/>

Martin, R.E., (2015, June). From molding minds to dissecting brains: Three lessons I have taken from the history classroom to the neuroscience lab.

Bright – a Medium publication about innovation in education. Retrieved from <https://medium.com/bright/from-molding-minds-to-dissecting-brains-b67413677510#.k0o25jqwq>

Martin, R.E., (2009). Grey areas. In N.I. Sommers (Ed.), *Teachers as writers: essays on teaching and learning*. Cambridge, MA: Harvard Graduate School of Education.

Other Work Experience

Google, Mountain View, CA (2004)

Advertising Operations Representative

DRAGONE Productions, San Francisco, CA (2004)

Talent Scout, Casting Assistant for Le Reve

Saturday Night Live, New York, NY (2002-2003)

Research and Production Intern

PR Consulting, New York, NY (2001-2002)

Public Relations and Production Intern

Olympic Synchronized Swimming Training Squad (2000)

United States National Team (1996-2001)

Athlete