

RISTA C. PLATE

Waisman Center
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RESEARCH INTERESTS

- Developmental mechanisms underlying social learning
- How children discern the statistical structure of social input
- Statistical inference as a domain general learning tool

EMPLOYMENT

MindCORE Postdoctoral Fellow
University of Pennsylvania, January 2020 (Expected Start Date)

EDUCATION

Ph.D., Psychology
University of Wisconsin-Madison, 2019 (Expected)
Mentors: Seth D. Pollak, Ph.D. and Kristin Shutts, Ph.D.

M.S., Psychology
University of Wisconsin-Madison, 2013

B.A., Psychology (with Honors)
University of Wisconsin-Madison, 2010

AWARDS AND HONORS

Morrissey Research Fellowship,
University of Wisconsin-Madison, 2019

Richard L. and Jeanette A. Hoffman Distinguished Graduate Student Fellowship,
University of Wisconsin-Madison, 2017-2019

Fellow,
Morse Society Interdisciplinary Scholars Program, 2016-2019

Student Research Travel Grant,
University of Wisconsin-Madison, 2015, 2019

Research Travel Award,
Hertz Foundation, 2015, 2017, 2018

Post-Baccalaureate Intramural Research Training Award,
National Institute of Mental Health,
Section on Development and Affective Neuroscience (PI: Dr. Daniel Pine), 2010-2012

Hilldale Undergraduate Research Award,
University of Wisconsin-Madison
Neural Correlates of Social Feedback Processing in Children, 2009

FUNDING

National Science Foundation,
Graduate Research Fellowship,
The Neural Mechanisms of Emotion Perception and Social Categorization in Children
(DGE 1256259), 2014-2017

National Institute of Mental Health,
Pre-doctoral Fellowship,
Training Program in Emotion Research
(T32 MH018931), 2012-2014

PROFESSIONAL DEVELOPMENT

Sexual Assault Bystander Training, 2018
Waisman Center Ethics and Professional Development Seminar, 2017-2018
The College Classroom: Teaching in Science & Engineering, 2015
Psychopharmacology Seminar Series, 2013-2014
Multicultural Competence Training, 2013, 2014
SCID Training, 2011
AFNI Boot Camp, 2010
SAS Enterprise Guide Workshop, 2010
ERP Boot Camp, Dr. Steve Luck, 2009

PROFESSIONAL SERVICE

Reviewer
Cognitive Science Society Annual Meeting, 2019

Co-chair, Member Abstracts Review Committee
Cognitive Science Society Annual Meeting, 2018

Organizer, Psychology Department Colloquium Committee
University of Wisconsin-Madison, 2013-Present

PROFESSIONAL MEMBERSHIPS

Society for Research in Child Development

TEACHING EXPERIENCE

Classroom Instruction

Instructor, Child Development
Fall 2019

Guest Lecturer, Social Development
Course Instructor: Dr. Kristin Shutts, Spring 2017

Teaching Assistant, Social Development
Course Instructor: Dr. Kristin Shutts, Spring 2017

Guest Lecturer, Child Development
Course Instructor: Dr. Karl Rosengren, Fall 2015

Guest Lecturer, Child Psychopathology
Course Instructor: Dr. James Li, Fall 2015

Guest Lecturer, Child Development
Course Instructor: Dr. Jenny Saffran, Fall 2014

Teaching Fellow, Introduction to Psychology
Course Instructor: Dr. Jeffrey Henriques, Fall 2009

Mentoring

Supervise 5-15 undergraduate students yearly in research tasks including data collection (participants ages 4-30-years-old), data analysis (Matlab, SPSS, R), academic writing, presentations, and weekly journal club meetings, 2012-Present

Thesis Students

Gwyneth Delap (2018). *The influence of context on emotional intensity ratings.*

Maureen Butler (2018). *Attention bias training: A novel randomized control trial.*

Cassandra Windau (2018). *Emotion category boundaries: Formation and flexibility across childhood.*

Zachary Bloomberg (2014). *The relationship between externalizing behaviors and probability learning.*

CONFERENCE PRESENTATIONS

Chaired Symposia

How cognitive science can inform a new perspective for understanding emotional development.

Symposium accepted at the meeting of the Society for Research in Child Development, Baltimore, MD, 2019. With: Ashley Ruba, Dr. Yang Wu. Discussant: Dr. Fei Xu

Social statistics: How other people influence children's affiliations, opinions, and behavior.

Symposium presented at the meeting of the Society for Research in Child Development, Austin, TX, 2017. With: Drs. Daphna Buchsbaum, Hyowon Gweon, Tamar Kushnir

Papers and Posters

* indicates student mentee

Woodard, T., **Plate, R.C.**, & Pollak, S.D. (2019). *Reward enhances children's attention to underlying statistical information of emotional expressions*. Poster accepted at the meeting of the Cognitive Development Society, Louisville, KY.

Delap, G.*, Leitzke, B., **Plate, R.C.**, Pollak, S.D. (2019). *The impact of conflicting emotional cues on ratings of facial expression intensity across development*. Poster presenter at the University of Wisconsin-Madison Undergraduate Research Symposium, Madison, WI.

Butler, M.K.*, **Plate, R.C.**, Leitzke, B., Pollak, S.D. (2019). *Attention Bias Modification in Undergraduate Students: A Novel Training Paradigm*. Poster presenter at the University of Wisconsin-Madison Undergraduate Research Symposium, Madison, WI.

Weiss, E.*, Windau, C.G., **Plate, R.C.**, Pollak, S.D. (2019). *Malleability of Categorization in Typically Developing and Physically Abused Children*. Poster presenter at the University of Wisconsin-Madison Undergraduate Research Symposium, Madison, WI.

Plate, R.C., Wood, A., Woodard, K., Pollak, S.D. (2019). *Statistical learning and emotion category representations*. Talk accepted at the meeting of the Society for Research in Child Development, Baltimore, MD.

Windau, C.*, **Plate, R.C.**, Pollak, S.D. (2019). *Emotion category flexibility in physically abused and typically developing children*. Poster accepted at the meeting of the Society for Research in Child Development, Baltimore, MD.

Leitzke, B.T., **Plate, R.C.**, Delap, G.D.*, Pollak, S.D. (2019). *Attention training improves children's ratings of emotional intensity*. Poster accepted at the meeting of the Society for Research in Child Development, Baltimore, MD.

Plate, R.C. (2018). *How social information influences exploration and exploitation: Implications for learning*. Talk presented at the meeting of the Cognitive Science Society, Madison, WI.

Plate, R.C., Wood, A., & Pollak, S.D. (2018). *Unsupervised learning shapes emotion categories*. Poster presented at the meeting of the Cognitive Science Society, Madison, WI.

Plate, R.C., Wood, A., & Pollak, S.D. (2018). *Emotion categories shift through statistical learning*. Poster presented at the meeting of the Society for Personality and Social Psychology, Atlanta, GA.

- Plate, R.C.,** Wood, A. (2017). *Unsupervised learning and emotion categorization*. Talk presented at the Developmental and Social Psychology Brown Bag, University of Wisconsin-Madison.
- Scott, K.E., Brey, E.L., **Plate, R.C.,** Shutts, K., & Devine, P.G. (2017). *Parents' discomfort drives children's decreasing endorsement of racial (but not gender) stereotypes*. Talk presented at the meeting of the Cognitive Development Society, Portland, OR.
- Plate, R.C.,** Shutts, K., & Pollak, S.D. (2017). *Statistical learning in a social context*. Talk presented at the Spring Research Symposium, Madison, WI.
- Plate, R.C.,** Shutts, K., & Pollak, S.D. (2017). *Unhelpful social information hinders statistical learning*. Talk presented at the meeting of the Society for Research in Child Development, Austin, TX.
- Leitzke, B., **Plate, R.C.,** & Pollak, S.D. (2017). *Attention bias modification training: Efficacy and generalizability*. Talk presented at the meeting of the Society for Research in Child Development, Austin, TX.
- Plate, R.C.,** Shutts, K., & Pollak, S.D. (2017). *Children monitor changes in a social agent's reliability*. Poster presented at the meeting of the Cognitive Development Society, Portland, OR.
- Windau, C.*, **Plate, R.C.,** & Pollak, S.D. (2017). *Influence of social information on children's statistical learning*. Poster presented at the University of Wisconsin-Madison Undergraduate Research Symposium, Madison, WI.
- Plate, R.C.,** & Pollak, S.D. (2017). *Social and nonsocial feedback learning across development*. Poster presented at the meeting of the Society for Research in Child Development, Austin, TX.
- Plate, R.C.** (2015). *How children use incoming information to direct behavior over time*. Talk presented at the Clinical Psychology Brown Bag, University of Wisconsin-Madison.
- Plate, R.C.,** Fulvio, J.M., Shutts, K., Green, C.S., & Pollak, S.D. (2015). *Decision making under uncertainty: Evolution of strategy use across development*. Poster presented at the meeting of the Cognitive Development Society, Columbus, OH.
- Plate, R.C.,** Brey, E.L., Devine, P.G., & Shutts, K. (2015). *Children's differential endorsement of race and gender stereotypes across development*. Poster presented at the meeting of the Society for Research in Child Development, Philadelphia, PA.
- Plate, R.C.** (2014). *Strategy transition in probability learning across development*. Talk presented at the Clinical and Biological Psychology Brown Bag, University of Wisconsin-Madison.
- Brey, L., & **Plate, R.C.** (2014). *Children's race/class biases and the potential for intervention*. Talk presented at the Clinical and Developmental Psychology Brown Bag, University of Wisconsin-Madison.
- Plate, R.C.** (2013). *Children's probability learning*. Talk presented at the Clinical Psychology Brown Bag, University of Wisconsin-Madison.

- Plate, R.C.** (2013). *Probability learning across development*. Talk presented at the First Year Project Symposium, University of Wisconsin-Madison.
- Rosen, D.K., Dorfman, J., Carlisi, C., **Plate, R.C.**, Pine, D.S., & Ernst, M. (2013). *Effect of anxiety on pediatric performance on the Piñata task*. Poster presented at the NIH Research Festival, Bethesda, MD.
- Plate, R.C.**, Bemis, J.M., Daniele, T.M., Hardin, M., Helfinstein, S., Lahat, A., Fox, N.A., Pine, D.S., & Ernst, M. (2011). *Effect of age on reward sensitivity in a pediatric sample of anxious and healthy participants*. Poster presented at the NIH Research Festival, Bethesda, MD.
- Daniele, T.M., **Plate, R.C.**, Jarcho, J.M., Pine, D.S., & Ernst, M. (2011). *Effects of social salience on youths with anxiety disorders*. Poster presented at the meeting of the Society for Social Neuroscience, Washington, D.C.
- Plate, R.C.**, Bemis, J.M., Daniele, T.M., Hardin, M., Helfinstein, S., Lahat, A., Fox, N.A., Pine, D.S., & Ernst, M. (2011). *Differential effects of gender and gain magnitude on a monetary incentive delay task adapted for youths*. Poster presented at the NIMH Division of Intramural Research Programs Scientific Retreat, Lancaster, PA.
- Daniele, T.M., **Plate, R.C.**, Jarcho, J.M., Pine, D.S., & Ernst, M. (2011). *Risk-taking and social salience: Effect of peer evaluation on risk-taking behavior in anxious youths*. Poster presented at the NIMH Division of Intramural Research Programs Scientific Retreat, Lancaster, PA.
- Plate, R.C.**, Detloff, A.M., Jarcho, J.M., Pine, D.S., & Ernst, M. (2011) *Loss aversion in healthy and anxious individuals: A developmental investigation*. Poster presented at the meeting of the Society of Biological Psychiatry, San Francisco, CA.
- Benson, B., Detloff, A.M., **Plate, R.C.**, Guyer, A.E., Jarcho, J.M., Nelson, E.E., Pine, D.S., & Ernst, M. (2011). *Unique neural correlates of contingency-based reward in anxious adolescents*. Poster presented at the meeting of the Society of Biological Psychiatry, San Francisco, CA.
- Jarcho, J.M., Benson, B.E., **Plate, R.C.**, Guyer, A.E., Detloff, A.M., Leibenluft, E., Pine, D.S., & Ernst, M. (2011). *Anticipating rewards: Incentive value and response mode differentially influence brain activity in adolescents and adults*. Poster presented at the meeting of the Society of Biological Psychiatry, San Francisco, CA.
- Plate, R.C.**, Strang, N.M., McDermott, J.M., & Pollak, S.D. (2011). *Neural correlates of social feedback processing in children*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Canada.

PUBLICATIONS

- Plate, R. C.**, Shutts, K., Cochrane, A., Green, C. S., & Pollak, S. D. (In Preparation). The Influence of social input on children's statistical learning.

- Brey, E. L., Scott, K. E., **Plate, R. C.**, Devine, P. G., & Shutts, K. (Under Review). Stereotyping: Developmental trajectories for race and gender.
- Leitzke, B.T., **Plate, R.C.**, & Pollak, S.D. (Under Review). Training improves accuracy in rating the intensity of emotions.
- Plate, R.C.**⁺, Wood, A. ⁺, Woodard, K., & Pollak, S.D. (2019). Probabilistic learning of emotion categories. *Journal of Experimental Psychology: General*. (⁺equal contribution)
- Plate, R.C.**, Bloomberg, Z., Bolt, D.M., Bechner, A.M., Roeber, B.J., & Pollak, S.D. (2019). Abused Children Experience High Anger Exposure. *Frontiers in Psychology*, 10, 440.
- Plate, R. C.**, Fulvio, J. M., Shutts, K., Green, C. S., & Pollak, S. D. (2018). Probability learning: Changes in behavior across time and development. *Child Development*, 89 (1), 205-218.
- Plate, R.C.**, Richards, J.M., & Ernst, M. (2016). fMRI studies of the adolescent reward system: The triadic model perspective. In De Micholi, D., da Silva, E.A., Andrade, A.L.M., Farmigani, M.L.O.S., *Neurobiology of Drug Abuse in Adolescents*. Springer International Publishing, 113-136.
- Ernst, M., **Plate, R. C.**, Carlisi, C. O., Gorodetsky, E., Goldman, D., & Pine, D. S. (2014). Loss aversion and 5HTT gene variants in adolescent anxiety. *Developmental Cognitive Neuroscience*, 8, 77-85.
- Richards, J. M., **Plate, R. C.**, & Ernst, M. (2013). A systematic review of fMRI reward paradigms used in studies of adolescents vs. adults: The impact of task design and implications for understanding neurodevelopment. *Neuroscience & Biobehavioral Reviews*, 37 (5), 976-991.
- Richards, J. M., **Plate, R. C.**, & Ernst, M. (2012). Neural systems underlying motivated behavior in adolescence: Implications for preventive medicine. *Preventive Medicine*, 55, S7-S16.
- Jarcho, J. M., Benson, B. E., **Plate, R. C.**, Guyer, A. E., Detloff, A. M., Pine, D. S., Leibenluft, E., & Ernst, M. (2012). Developmental effects of decision-making on sensitivity to reward: An fMRI study. *Developmental Cognitive Neuroscience*, 2 (4), 437-447.

Updated: Sep-19