

Jamie L. Hanson

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Academic Appointments

09/2016 -	University of Pittsburgh Assistant Professor Department of Psychology	Pittsburgh, PA
09/2016 -	University of Pittsburgh Research Scientist Learning Research and Development Center	Pittsburgh, PA

Education

02/2014 – 08/2016	University of North Carolina at Chapel Hill and Duke University Postdoctoral Fellow, Center for Developmental Science and Carolina Consortium on Human Development Supervisor: Drs. Ahmad Hariri and Kenneth Dodge	Durham, NC
09/2005 -12/2013	University of Wisconsin-Madison Ph.D., Developmental affective neuroscience Department of Psychology Supervisors: Drs. Richard Davidson and Seth Pollak	Madison, WI
08/2003 - 08/2005	University of Wisconsin-Madison Post-Baccalaureate Researcher Joint position at the Child Emotion Research Laboratory and the Waisman Center, Laboratory for Brain Imaging & Behavior Supervisors: Drs. Richard Davidson and Seth Pollak	Madison, WI
08/1999 - 07/2003	University of Pennsylvania B.A. with Honors in Psychology (Magna Cum Laude) Advisor: Dr. Martha Farah	Philadelphia, PA

Extramural Funding

2015-2017	Title: Reward and Emotion Reactivity After Early Stress Agency: National Institute of Mental Health Type: Loan Repayment Program Award (Clinical, Extramural) PI: Hanson
2014-2015	Title: Human development: Interdisciplinary research training Agency: National Institute of Child Health and Human Development Type: T32 (HD007376) PI: Hussong
2010-2013	Role: Postdoctoral Fellow Title: Neurodevelopmental correlates of reward processing and adolescent substance abuse Agency: National Institute of Drug Abuse Type: F31 (DA028087) PI: Hanson

Publications

Peer-Reviewed Journal Articles:

- [21] **Hanson JL**, van den Bos W, Roeber B, Rudolph KD, Davidson RJ, & Pollak SD (2017). Early adversity and learning: Implications for typical and atypical behavioral development. ***Journal of Child Psychology and Psychiatry***.
- [20] Scult MA, Knodt AR, **Hanson JL**, Ryoo M, Adcock RA, Hariri AR, Strauman TJ. (2016). Individual Differences in Regulatory Focus Predict Neural Response to Reward. ***Social Neuroscience***. doi: 10.1080/17470919.2016.1178170
- [19] **Hanson JL**, Albert D, Iselin AR, Carré JM, Dodge KA, & Hariri AR. (2016). Cumulative stress in childhood is associated with blunted reward-related brain activity in adulthood. ***Social Cognitive and Affective Neuroscience***, 11(3):405-412.
- [18] **Hanson JL**, Knodt AK, Brigidi BD, & Hariri AR. (2015). Lower structural integrity of the uncinate fasciculus is associated with a history of child maltreatment and future psychological vulnerability to stress. ***Development and Psychopathology***, 27(4pt2):1611-1619.
- [17] Hair NL, **Hanson JL**, Wolfe BL, & Pollak SD. (2015). Child poverty, academic achievement, and brain development. ***JAMA Pediatrics***, 169(9):822-829.
- [16] Dismukes AR, Shirtcliff EA, **Hanson JL**, & Pollak SD. (2015). Context influences the interplay of endocrine axes across the day. ***Developmental Psychobiology***, 57(6):731-741.
- [15] **Hanson JL**, Hariri AR, & Williamson DE. (2015). Blunted ventral striatum development in adolescence reflects emotional neglect and predicts depressive symptoms. ***Biological Psychiatry***, 78(9):598-605.
- [14] Chung, MK, **Hanson JL**, Ye J, Davidson RJ, & Pollak SD (2015). Persistent homology in sparse regression and its application to brain morphometry. ***IEEE Transactions on Medical Imaging***, 34(9):1928-1939.
- [13] **Hanson JL**, Nacewicz BM, Sutterer MJ, Cayo AA, Schaefer SM, Rudolph KD, Shirtcliff EA, Pollak SD, & Davidson RJ. (2015). Behavior problems after early life stress: Contributions of the hippocampus and amygdala. ***Biological Psychiatry***, 77(4):314-23.
- [12] Caldwell JZK, Essex MJ, Kalin NH, Slattery MJ, Armstrong JM, **Hanson JL**, Sutterer MJ, Stodola DE & Davidson RJ. (2015). Preschool externalizing behavior predicts gender-specific variation in adolescent amygdala, hippocampus, and prefrontal cortical volumes, ***PLoS ONE***, 10(2):e0117453.
- [11] Gorka AX, **Hanson JL**, Jacobson SR, & Hariri AR (2014). Reduced hippocampal and medial prefrontal gray matter mediate the association between reported childhood maltreatment and trait anxiety in adulthood and predict sensitivity to future life stress. ***Biology of Mood & Anxiety Disorders***, 4:12.
- [10] **Hanson JL**, Hair N, Shen DG, Shi F, Gilmore JH, Wolfe BL, & Pollak SD. (2013) Family poverty affects the rate of human infant brain growth. ***PLoS ONE***, 8(12): e80954.
- [9] Chung MK, **Hanson JL**, Lee H, Adluru N, Alexander AL, Davidson RJ, & Pollak SD (2013). Persistent homological sparse network approach to detecting white matter abnormality in maltreated children: MRI and DTI multimodal study. ***Medical Image Computing and Computer-Assisted Intervention - MICCAI 2013***, 16(Pt 1):300-307.
- [8] **Hanson JL**, Chung MK, Adluru N, Alexander AL, Davidson RJ, & Pollak SD. (2013). Early neglect is associated with alterations in white matter integrity and cognitive functioning. ***Child Development***, 84(5):1566-78.
- [7] **Hanson JL**, Suh JW, Nacewicz BM, Sutterer MJ, Cayo AA, Stodola DE, Burghy CA, Hongzhi W, Avants BB, Yushkevich PA, Essex MJ, Pollak SD, & Davidson RJ. (2012). Robust automated amygdala segmentation via multi-atlas diffeomorphic registration. ***Frontiers in Neuroscience***, 6:166.
- [6] **Hanson JL**, Chung MK, Avants, BB, Rudolph KD, Shirtcliff EA, Gee JC, Davidson RJ, & Pollak SD. (2012). Structural variations in prefrontal cortex mediate the relationship between early childhood stress and spatial working memory. ***Journal of Neuroscience***, 32(23), 7917-7925.
- [5] Strang NM, **Hanson JL**, & Pollak SD. (2012). The importance of biological methods in linking social experience with social and emotional development. ***Monographs of the Society for Research in Child Development***, 77(2), 61-66.
- [4] **Hanson JL**, Chandra A, Wolfe BL, & Pollak SD (2011). Association between income and the

hippocampus. *PLoS ONE*, 6(5): e18712.

- [3] **Hanson JL**, Chung MK, Avants BB, Shirtcliff EA, Gee JC, Davidson RJ, & Pollak SD. (2010). Early stress is associated with alterations in the orbitofrontal cortex: a tensor-based morphometry investigation of brain structure and behavioral risk. *Journal of Neuroscience*, 30(22), 7466-7472.
- [2] Bauer PM., **Hanson JL**, Pierson RK, Davidson RJ, & Pollak SD. (2009). Cerebellar volume and cognitive functioning in children who experienced early deprivation. *Biological Psychiatry*, 66(12), 1100-1106.
- [1] Eatough EM, Shirtcliff EA, **Hanson JL**, & Pollak SD. (2009). Hormonal reactivity to MRI scanning in adolescents. *Psychoneuroendocrinology*, 34(8), 1242-1246.

Peer-Reviewed Book Chapters:

- [4] Chung MK, **Hanson JL**, & Pollak SD. (2016). Statistical analysis on brain surfaces. In H. Ombao, M. Lindquist, W. Thompson, & J. Aston (Eds). *Handbook of Modern Statistical Methods: Neuroimaging Data Analysis*. New York, NY: Taylor & Francis
- [3] **Hanson JL** & Hackman D. (2012). Cognitive neuroscience and SES disparities. In T. Seeman, W.Evans, & B. Wolfe (Eds). *Biological consequences of socioeconomic inequalities*. New York, NY: Russell Sage Foundation.
- [2] **Hanson JL**, Chandra A, Moss E, Bhattacharya J, Pollak SD, & Wolfe B. (2012). Brain development and poverty: A first look. In T. Seeman, W.Evans, & B. Wolfe (Eds). *Biological consequences of socioeconomic inequalities*. New York, NY: Russell Sage Foundation.
- [1] Hilt L, **Hanson JL**, & Pollak SD. (2011). Emotion dysregulation. In B. Brown and M. Prinstein (Eds.), *Encyclopedia of adolescence*. San Diego, CA: Academic Press.

Journal Commentaries:

- [1] Hair NL, **Hanson JL**, Wolfe BL, & Pollak SD. (2016). Association Between Child Poverty and Academic Achievement-In Reply. *JAMA Pediatrics*, 170(2):180.

Manuscripts Under Review:

- [1] Harms M.B., Shannon-Bowen K., **Hanson JL**, & Pollak SD. Atypical Instrumental Learning and Brain Activity in Physically Abused Adolescents

Manuscripts in Preparation:

- [2] **Hanson JL**, Knodt AK, Brigidi BD, & Hariri AR. Hyperconnectivity between medial prefrontal cortex and ventral striatum after experiences of early and more recent stress: Relations with positive affect.
- [1] Hair NL, **Hanson JL**, Wolfe BL, & Pollak SD. Charting normative brain development trajectories over infancy, childhood, adolescence, and adulthood

Teaching and Mentoring Experience

Teaching:

University of North Carolina at Chapel Hill

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|--------------|---|
| 2016, Spring | Postdoctoral Facilitator, Proseminar in Developmental Science: Cognitive Development from a Neuroscience Perspective (PSYC 781) |
| 2015, Fall | Postdoctoral Facilitator, Proseminar in Developmental Science: The Family as a Context for Development, Continuity, and Change in Externalizing Behaviors in Early Childhood (PSYC 781) |
| 2014, Spring | Postdoctoral Facilitator, Proseminar in Developmental Science: Cultivating a Developmental Science of Flourishing (PSYC 781) |
| 2014, Fall | Postdoctoral Facilitator, Advanced Seminar in Human Development: Developmental Science and Education (EDUC 881) |

University of Wisconsin-Madison

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| 2009, Fall | Teaching Assistant, Introduction to Child Development (PSYCH 560) |
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2009, Spring Teaching Assistant, Introduction to Child Development (PSYCH 560)

Guest Lecturing:

University of North Carolina at Chapel Hill

2014-2015 Biology in Public Discourse (PUBPOL 590S), "Neuroimaging: Triumphs, Trials and Tribulations"

University of Wisconsin-Madison

2010-2013 Introduction to Child Development (PSYCH 560), "Introduction to the Biological Foundations of Development"

Mentoring (Graduate):

University of Pittsburgh

2016- Thomas Kraynak, Masters Thesis Committee (Department of Psychology)

2016- Stephanie Sequeira, Graduate Advisory Committee (Department of Psychology)

Mentoring (Undergraduate):

University of Wisconsin-Madison

2011-2013 Alexandra Dyer; Current Position: Medical Student, Medical College of Wisconsin

2008-2009 Amelia Cayo; Current Position: Research Specialist, Center for Investigating Healthy Minds

2007-2008 Matthew Sutterer; Current Position: Graduate Student, University of Iowa Department of Neuroscience

2006-2007 Patrick Bauer; Current Position: Neurology Resident, Medical College of Wisconsin

Awards and Honors

2015 Trainee Professional Development Award
Society for Neuroscience

2015 Travel Award
HealthEmotions Research Institute
Wisconsin Symposium on Emotion
University of Wisconsin-Madison

2014-2015 Fellowship
Carolina Consortium on Human Development
Center for Developmental Science
University of North Carolina at Chapel Hill

2014 Fellowship
Sackler Summer Institute
Sackler Institute, Cornell University

2014 Health & Society Scholars Fellowship Finalist (*declined*)
Robert Wood Johnson Foundation

2012 Fellowship
Summer Institute on Social Developmental Neuroscience
University of Maryland

2012 Friends of the Waisman Center Award
University of Wisconsin-Madison

2012 Travel Award
Sackler Colloquium on Biological Embedding of Early Social Adversity
National Academy of Sciences

2011 Fellowship
NIMH Summer Institute in Cognitive Neuroscience
University of California Santa Barbara

2011	Schwartz Fellowship Department of Psychology University of Wisconsin-Madison
2011	Travel Award NIMH Meeting on "The Determinants of Executive Function & Dysfunction" University of Colorado at Boulder
2010, 2012	Vilas Travel Award Graduate School University of Wisconsin-Madison
2010	Dissertation Grant Robert Wood Johnson Foundation
2009	Hertz Award Department of Psychology University of Wisconsin-Madison
2006	John Merck Fellowship Sackler Summer Institute on the Biology of Developmental Disabilities Cornell University

Invited Lectures and Colloquia

For Academic Audiences:

- [19] **Hanson JL.** (2016, September 28). Advancing models of developmental neurobiology and learning to understand the effect of early life stress. **Lecture presented at Cognitive Brownbag, University of Pittsburgh- Department of Psychiatry, Pittsburgh, PA.**
- [18] **Hanson JL.** (2016, August 4). Corticostriatal functioning after early life stress: The importance of reward processing in understanding risk and resilience. **Lecture presented at the Laboratory of Neurocognitive Development (PI: Luna), University of Pittsburgh- Department of Psychiatry, Pittsburgh, PA.**
- [17] **Hanson JL.** (2016, June 24). Corticolimbic Circuits and Stress: Understanding Risk for Internalizing Psychopathology and Allostatic Models of Development. **Lecture presented at the Annual Meeting of Academy of Behavioral Medicine Research.** Whistler, British Columbia.
- [16] **Hanson JL.** (2016, March 14). Corticostriatal functioning after early life stress: The importance of reward processing in understanding risk and resilience. **Lecture presented at North Carolina State University, Department of Psychology.** Raleigh, NC.
- [15] **Hanson JL.** (2016, February 2). Corticostriatal functioning after early life stress: The importance of reward processing in understanding risk and resilience. **Lecture presented at Northeastern University, Department of Psychology.** Boston, MA.
- [14] **Hanson JL.** (2016, January 7). Advancing models of developmental neurobiology and learning to understand the effect of early life stress. **Lecture presented at the University of Pittsburgh, Department of Psychology.** Pittsburgh, PA.
- [13] **Hanson JL.** (2015, December 14). Integrating models of neurobiology and self-regulation into the study of childhood socioeconomic disadvantage. **Lecture presented at the University of California Davis, Department of Human Ecology.** Davis, CA.
- [12] **Hanson JL.** (2015, December 9). Corticostriatal functioning after early life stress: The importance of reward processing in understanding risk and resilience. **Lecture presented at Rutgers University-Newark, Department of Psychology.** Newark, NJ.
- [11] **Hanson JL.** (2015, December 1). Corticostriatal functioning after early life stress: The importance of reward processing in understanding risk and resilience. **Lecture presented at the University of North Carolina at Chapel Hill, Department of Psychology.** Chapel Hill, NC
- [10] **Hanson JL.** (2015, November 10). Corticostriatal functioning after early life stress: The importance of reward processing in understanding risk and resilience. **Lecture presented at the University of Delaware, Department of Psychology.** Newark, DE.

- [9] **Hanson JL.** (2014, October 8). Reward functioning and early life stress: Integrating affective neuroscience and developmental psychopathology. **Lecture presented at the University of North Carolina at Chapel Hill, Department of Psychology.** Chapel Hill, NC.
- [8] **Hanson JL.** (2013, December 10). Socioeconomic Status and Brain Development. **Lecture presented at the University of Wisconsin-Madison, Waisman Center, Early Childhood Seminar Series,** Madison, WI.
- [7] **Hanson JL.** (2013, March 14). Early adversity and neurobiology: Understanding children at-risk. **Lecture presented at Stanford University, Department of Psychology,** Palo Alto, CA.
- [6] **Hanson JL.** (2013, January 10). Early adversity and neurobiology: Understanding children at-risk. **Lecture presented at the University of California, San Diego, Department of Psychology,** San Diego, CA.
- [5] **Hanson JL.** (2012, December 10). Early adversity and neurobiology: Understanding children at-risk. **Lecture presented at the University of Minnesota, Institute of Child Development,** Minneapolis, MN.
- [4] **Hanson JL.** (2012, November 28). Early adversity and the medial temporal lobe: Insights from structural brain imaging. **Lecture presented at NIMH Center Meeting on Early Experiences, Stress and Neurobehavioral Development,** Seattle, WA.
- [3] **Hanson JL.** (2011, May 5). Neurobiological consequences of early stress exposure: Examining executive functioning and the prefrontal cortex. **Lecture presented at Columbia University, Department of Psychology, Departmental Colloquium,** New York, NY.
- [2] **Hanson JL.** (2009, September 10). NIH brain scan and poverty project: Preliminary findings. **Lecture presented at the Russell Sage Foundation,** San Francisco, CA.
- [1] **Hanson JL.** (2008, November 13). Income and brain development with applications to cognition and health. **Lecture presented at the Russell Sage Foundation,** New York, NY.

For Public Audiences:

- [2] **Hanson JL.** (2016, September 19). Early experience and brain development. **Roundtable discussion at the Homewood Brushton YWCA,** Pittsburgh, PA.
- [1] **Hanson JL.** (2015, September 17). Science Cafe: The Teenager's Mind. North Carolina Museum of Natural Sciences. **Lecture presented at the North Carolina Museum of Natural Sciences,** Raleigh, NC.

Conference Presentations

Chaired Conference Symposia:

- [5] **Hanson JL.** Emerging research in developmental neurogenetics: Novel insights into intermediate neural phenotypes of affective dysregulation. Panelists: Michael Pluess, Rebecca Waller, and Christina Di Iorio. Paper Symposium chaired at the **2015 biennial meeting of the Society for Research on Child Development,** Philadelphia, PA.
- [4] **Hanson JL & Kigar SL.** The neurobiological sequelae of early-life stress. Panelists: Kerry Ressler, Stephen Suomi, Mar Sanchez, Nicholas Allen, Jeremy Rosenkranz, Bonnie Goff, Jeremy Gray, Allie Rodgers, Emma Sarro, Elizabeth Cox, and Tiffany Doherty. Nanoymposium chaired at the biennial meeting of the **2014 Annual Meeting for Society for Neuroscience,** Washington, DC.
- [3] **Hanson JL.** Emerging early adversity and psychopathology: Investigating potential neurobiological mechanisms. Panelists: Nathan Fox, Sara Jaffee, Eamon McCrory. Paper Symposium chaired at the **2013 biennial meeting of the Society for Research on Child Development.** Seattle, WA.
- [2] **Hanson JL & Mashoodh R.** Early life stress and behavioral development. Panelists: Patrick McGowan, Dario Maestripieri, Dylan Gee, Brittany Howell, Jennifer Blaze, Millie Rincón Cortés, and Rahia Mashoodh. Nanoymposium chaired at the biennial meeting of the **2012 Annual Meeting for Society for Neuroscience,** Washington, DC.
- [1] **Hanson JL.** Early life experience and the emotional brain. Panelists: Regina Sullivan, Nim Tottenham, Tania Roth, David Lyons, Anna Braun, Brittany Howell. Nanoymposium chaired at the biennial meeting of the **2009 Annual Meeting for Society for Neuroscience,** Chicago, IL.

Talks:

- [6] **Hanson JL**, Williamson DE, & Hariri AR. Polygenic risk and intermediate neural phenotypes: Focusing on neural reward reactivity to understand cigarette smoking. Paper presentation at the **2015 biennial meeting of the Society for Research on Child Development**, Philadelphia, PA.
- [5] **Hanson JL**, Williamson DE, & Hariri AR. Decrease in reward-related ventral striatum reactivity during adolescence reflects early life stress and predicts depressive symptomatology. Nanosymposium presentation at the biennial meeting of the **2014 annual meeting for Society for Neuroscience**, Washington, DC.
- [4] **Hanson JL**, Davidson RJ, & Pollak SD. Reward learning and early adversity: Neurobiological mechanisms of behavioral risk. Paper presentation at the **2013 biennial meeting of the Society for Research on Child Development**, Seattle, WA.
- [3] **Hanson JL**, Pollak SD, & Davidson RJ. Early life stress & medial temporal lobe morphometry. Nanosymposium presentation at the biennial meeting of the **2012 annual meeting for Society for Neuroscience**, Washington, DC.
- [2] **Hanson JL**. Remarks at The Edward Zigler SRCDC Biennial Policy Pre-Conference at the **2011 biennial meeting of the Society for Research on Child Development**, Montreal, Quebec.
- [1] **Hanson JL**, Pollak SD, & Davidson RJ. The correlates of early experience on structural brain development. Nanosymposium presentation at the biennial meeting of the **2009 annual meeting for Society for Neuroscience**, Chicago, IL.

Posters (first-author):

- [9] **Hanson JL**, Knodt, AK, Dodge KA, & Hariri AR. (2015). Early life stress is associated with decreased reward-related activity and intrinsic functional connectivity of the ventral striatum as well as symptoms of depression in adulthood. *Society for Neuroscience Abstracts*, 349.04/AA15.
- [8] **Hanson JL**, Chung MK, Avants BB, Rudolph KD, Shirtcliff EA, Gee JC, Davidson RJ, & Pollak SD. (2011). Child maltreatment, cumulative lifetime stress and amygdala volume. **Society for Neuroscience Abstracts** 927.09/VV93
- [7] **Hanson JL**, Chung MK, Avants BB, Shirtcliff EA, Gee JC, Pollak SD, & Davidson RJ. (2011). Structural brain correlates of successful stress regulation in children. **Cognitive Neuroscience Society 2011 Annual Meeting**, E43.
- [6] **Hanson JL**, Chung MK, Pollak SD, & Davidson RJ. (2010). Development of the medial temporal lobe: Cross-sectional & longitudinal insights into behavioral change. **Society for Neuroscience Abstracts** 91014/LLL46
- [5] **Hanson JL**, Chung MK, Avants B, Shirtcliff EA, Schlaak S, Gee J, Davidson RJ, & Pollak SD. (2010). Effects of early deprivation and neglect on adolescent brain structure and neuropsychological functioning. *b*, 3-069, (89).
- [4] **Hanson JL**, Oakes TR, Sutterer MJ, Schaefer SM, Nacewicz BM, Kirkland JZ, Pollak SD, & Davidson RJ. (2009). A comparison of automated volumetric methods and hand-tracing of the hippocampus and amygdala. **Meeting of the Organization for Human Brain Mapping** #360-SA-PM.
- [3] **Hanson JL**, Chung MK, Oakes TR, Pollak SD, & Davidson RJ (2009). Chronic life stress is associated with volumetric reductions in the corpus callosum. **Biennial Meeting of the Society for Research in Child Development** 1-043, (20).
- [2] **Hanson JL**, Chung MK, Sutterer MJ, Nacewicz BM, Pollak SD, & Davidson RJ. (2008). Smaller amygdalae are associated with early social deprivation in childhood. **Society for Neuroscience Abstracts** 47711/QQ10.
- [1] **Hanson JL**, Brotman MA, O'Reardon JJ, Wang J, Detre JA, DeRubeis RJ, & Farah MJ. (2003). Neural correlates of attributional style: A trait marker of depression. **Society for Neuroscience Abstracts** 64023.

Professional Activities

Editorial Boards: *Frontiers in Psychology (Emotion Science)*

Ad hoc Grant Reviewing: *U.S.-Israel Binational Science Foundation; Netherlands Organisation for Scientific Research*

Ad hoc Journal Reviewing: *Archives of General Psychiatry; Behavioural Brain Research; Biological Psychology; Biological Psychiatry; Child Development; Cortex; Development & Psychopathology; Developmental Cognitive Neuroscience; Developmental Psychobiology; Developmental Psychology; Developmental Science; Frontiers (in Emotion Science); Human Brain Mapping; JAMA Pediatrics; Journal of the American Academy of Child and Adolescent Psychiatry; Journal of Developmental & Behavioral Pediatrics; Journal of Neuroscience; Journal of Neuroscience Research; Nature Medicine; Nature Neuroscience; NeuroImage; NeuroImage: Clinical; Neuropsychopharmacology; Neuroscience Letters; Pediatrics; Psychological Medicine; Psychosomatic Medicine; Psychiatry Research: Neuroimaging; Proceedings of the National Academy of Sciences; Psychoneuroendocrinology; Social and Cognitive Affective Neuroscience; Translational Psychiatry; Trends in Cognitive Sciences*

Professional Memberships: *Society for Research in Child Development; Society for Neuroscience*

Departmental Service:

2014 Colloquium Planning Committee, Carolina Consortium on Human Development
2011-2012 Colloquium Planning Committee, Department of Psychology, University of Wisconsin-Madison

Media Coverage

“Evidence grows of poverty’s toll on young brains.” **USA Today**. (2016, July 6). Retrieved July 14, 2016, from <http://www.usatoday.com/story/news/investigations/2016/07/06/evidence-grows-povertys-toll-young-brains/86571856/>

“Early life stress and adolescent depression linked to impaired development of reward circuits.” **ScienceDaily**. (2015, October 29). Retrieved October 29, 2015, from <http://www.sciencedaily.com/releases/2015/10/151029102524.htm>

“Early childhood stress affects brain’s response to rewards.” **ScienceDaily**. (2015, October 19). Retrieved October 23, 2015, from <http://www.sciencedaily.com/releases/2015/10/151019110955.htm>

“What’s going on in there? Researcher explains teenage mind”. **WRAL.com**. (2015, September 14). Retrieved September 30, 2015, from <http://www.wral.com/what-s-going-on-in-there-researcher-explains-teenage-mind/14899328/>

“How Poverty Stunts Kids’ Brain Development”. **Huffington Post**. (2015, July 24). Retrieved September 30, 2015, from http://www.huffingtonpost.com/entry/how-poverty-stunts-childrens-brain-development_55b13476e4b08f57d5d3f990

“Poverty Disturbs Children’s Brain Development and Academic Performance”. **Scientific American**. (2015, July 22). Retrieved September 30, 2015, from <http://www.scientificamerican.com/article/poverty-disturbs-children-s-brain-development-and-academic-performance/>

“What Poverty Does to Kids’ Brains”. **Mother Jones**. (2015, July 20). Retrieved September 30, 2015, from <http://www.motherjones.com/politics/2015/07/child-brain-poverty-academic-achievement>

“Does Moving Poor People Work? (Op-Ed)”. **The New York Times**. (2014, September 16). Retrieved September 30, 2015, from <http://www.nytimes.com/2014/09/17/opinion/does-moving-poor-people-work.html>

“Childhood Stress Decreases Size of Brain Regions”. **Scientific American**. (2014, August 16).

Retrieved September 30, 2015, from
<http://www.scientificamerican.com/podcast/episode/childhood-stress-decreases-size-of-brain-regions/>

“UW researchers show how early stress hurts brain development”. **Milwaukee Journal Sentinel**. (2014, July 4). Retrieved September 30, 2015, from <http://www.jsonline.com/news/health/uw-researchers-show-how-early-stress-hurts-brain-development-b99304197z1-265866281.html>

“Early life stress can leave lasting impacts on the brain.” **ScienceDaily**. (2014, June 27). Retrieved September 30, 2015, from <http://www.sciencedaily.com/releases/2014/06/140627133107.htm>

“Wisconsin Researchers: Poverty Influences Brain Development in Children”. **DianeRavitch.com**. (2013, December 17). Retrieved September 30, 2015, from <http://dianeravitch.net/2013/12/17/wisconsin-researchers-poverty-influences-brain-development-in-children/>

“Poverty conditions may hinder early brain development, UW-Madison study suggests”. **Milwaukee Journal Sentinel**. (2013, December 12). Retrieved September 30, 2015, from <http://www.jsonline.com/blogs/news/235473321.html>

“Poverty influences children's early brain development”. **ScienceDaily**. (2013, December 11). Retrieved September 30, 2015, from <http://www.sciencedaily.com/releases/2013/12/131211183752.htm>

“Stress Alters Kids' Brains”. **Discovery News**. (2012, June 8). Retrieved September 30, 2015, from <http://news.discovery.com/human/psychology/child-stress-memory-brain-120608.htm>

“Stress may delay brain development in early years”. **ScienceDaily**. (2012, June 6). Retrieved September 30, 2015, from <http://www.sciencedaily.com/releases/2012/06/120606164936.htm>

“Children's Mental Health At Risk From Chronic Financial Instability”. **Huffington Post**. (2012, May 15). Retrieved September 30, 2015, from http://www.huffingtonpost.com/2012/05/15/children-mental-health_n_1514845.html