

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
04/2021 -	University of Pittsburgh Faculty Affiliate Center on Race and Social Problems	Pittsburgh, PA

Education & Training

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 Supervisors: Drs. Ahmad Hariri and Kenneth Dodge	Durham, NC
09/2005 -02/2014	University of Wisconsin-Madison Ph.D., Developmental affective neuroscience Department of Psychology Supervisors: Drs. Richard Davidson and Seth Pollak	Madison, WI
08/1999 - 07/2003	University of Pennsylvania B.A. with Honors in Psychology (<i>Magna Cum Laude</i>) Advisor: Dr. Martha Farah	Philadelphia, PA

Funding

2021	Pitt Momentum Funds, University of Pittsburgh Proposal Title: <i>Understanding the Role of the Brain in Race/Ethnicity Based Stressors and Behavioral Challenges Among Youth of Color</i> Direct Costs: \$52,174 Role: PI
2021	Development Fund Seed Grant, CMU-Pitt BRIDGE (MRI) Center, University of Pittsburgh and Carnegie Mellon University Proposal Title: <i>TeenBrainOnline: Breaking New Ground in Resolving Teen Mental Health Challenges</i> Direct Costs: \$31,800 Role: Co-I
2020-2021	National Institute of Child Health and Human Development R03 (R03HD095048: Proposal Title: <i>Neurodevelopmental Pathways Linking Physical Abuse and Affective Dysregulation</i>) Direct Costs: \$100,000 Role: PI
2019-2020	Internal Award, Learning Research & Development Center, University of Pittsburgh Proposal Title: <i>Income Dynamics and Adolescent Development: Understanding Behavioral and Academic Disparities Through Dense Sampling of Income, Parenting, and Perceptions of Financial Stress</i>

- Direct Costs: \$149,404
Role: PI
- 2019 Pitt Innovation Challenge (PInCh®) Poster Award Winner, Clinical and Translational Science Institute, University of Pittsburgh
Proposal Title: TeenBrainOnline
 Direct Costs: \$25,000
Role: Co-Investigator
- 2018-2019 Steven Manners Faculty Development Award, University Center for Social and Urban Research, University of Pittsburgh
Proposal Title: Leveraging ecological momentary assessments to understand associations between poverty, stress exposure, and environmental volatility
 Direct Costs: \$9,900
Role: PI
- 2018-2019 Social Science Research Initiative, Office of the Senior Vice Chancellor for Research, University of Pittsburgh
Proposal Title: Understanding Mechanisms that Shape Student Success: The Role of Motivation and Cognition in Academic Achievement
 Direct Costs: \$37,500
Role: Co-PI
- 2015-2019 NIMH, Loan Repayment Program Award (Clinical, Extramural—Project Title: Reward and Emotion Reactivity After Early Stress)
Role: PI
- 2014-2015 NICHD T32 Fellowship (HD007376: Human development: Interdisciplinary research training)
Role: Training Grant Trainee
- 2010-2013 NIDA F31 Fellowship (DA028087: Neurodevelopmental correlates of reward processing and adolescent substance abuse)
Role: Trainee/Fellow

Publications *(*denotes trainee authors; † denotes equal contribution to this work)*

Peer-Reviewed Journal Articles:

- [39] Hanson JL & Nacewicz BM. (*accepted*). Amygdala Allostatics and Early Life Adversity: Considering Excitotoxicity and Inescapability in the Sequelae of Stress. *Frontiers in Human Neuroscience*, Preprint available at: <https://psyarxiv.com/7qcuw>; <https://doi.org/10.3389/fnhum.2021.624705>
- [38] Gilmore AD*, Buser NJ* & Hanson JL. (2021). Variations in structural MRI quality significantly impact commonly used measures of brain anatomy. *Brain Informatics* 8, 7. <https://doi.org/10.1186/s40708-021-00128-2>
- [37] Sequeira SL, Silk JS, Jones NP, Hanson JL, Forbes EE, Ladouceur CD. (2021). From scanners to cell-phones: Neural and real-world responses to social threat in adolescent girls. *Social Cognitive Affective Neuroscience*, nsab038, <https://doi.org/10.1093/scan/nsab038>
- [36] Palacios-Barrios EE*†, Hanson JL†, Barry KR, Albert WD, White SF, Skinner AT, Lansford JE, & Dodge KA. (2021). Lower neural value signaling in the prefrontal cortex is related to childhood family income and depressive symptomatology during adolescence. *Developmental Cognitive Neuroscience*. 48, 100920. <https://www.sciencedirect.com/science/article/pii/S1878929321000116>
- [35] Sequeira SL, Silk JS, Ladouceur CD, Hanson JL, Ryan ND, Dahl R, Morgan J, & Forbes EE. (2021). Function in Neural Reward Circuitry is Associated with Psychological Treatment Response in Youth with Anxiety Disorders. *American Journal of Psychiatry*.
- [34] Shirtcliff EA, Hanson JL, Phan JM, Ruttle P & Pollak SD. (2020). Hyper- and Hypo-Cortisol Functioning in Post-Institutionalized Adolescents: The Role of Severity of Neglect and Context. *Psychoneuroendocrinology*. <https://doi.org/10.1016/j.psyneuen.2020.105067>
- [33] Yazgan I*, Hanson JL, Bates JE, Lansford JE, Petit GS, & Dodge KA. (2020). Cumulative Early Childhood Adversity and Later Antisocial Behavior: The Potential Mediating Role of Neurocognitive Functioning. *Development and Psychopathology*. <https://doi.org/10.1017/S0954579419001809>

- [32] Albert WD, **Hanson JL**, Skinner AE, Dodge KA, Steinberg L, Deater-Deckard K, Bornstein MH, & Lansford JE. (2020) Individual differences in executive function partially explain the socioeconomic gradient in middle-school academic achievement. *Developmental Science*, Jan 8:e12937. doi: 10.1111/desc.12937. preprint available: <https://psyarxiv.com/dkjin9/>
- [31] Kraynak TE, Marsland AL, **Hanson JL**, & Gianaros PJ. (2019). Retrospectively reported childhood physical abuse, systemic inflammation, and resting corticolimbic connectivity in midlife adults. *Brain Behavior and Immunity*.
- [30] Meier MH, Schriber RA, Beardslee J, **Hanson JL**, & Pardini D. (2019). Associations between Adolescent Cannabis Use and Adult Brain Structure: A Prospective Study of Boys Followed to Adulthood. *Drug and Alcohol Dependence*.
- [29] **Hanson JL**, Albert WD, Skinner AT, *Shen SH**, Dodge KA, & Lansford JE. (2019). Resting state coupling between the amygdala and ventromedial prefrontal cortex is related to household income in childhood and indexes future psychological vulnerability to stress. *Development and Psychopathology*.
- [28] Becker S, Bräscher A-K, Ferdenzi C, Ellingsen D-M, *Calma-Birling D**, Musser E, **Hanson J**, Lowe L, Martin L, Joffily M, Noll-Hussong M, Bensafi M, Lidhar N, Chan R, Pintos Lobo R, Bannister S, Olino T, Eerola T, & Wang Y. (2019). The Role of Hedonics in the Human Affectome. *Neuroscience & Biobehavioral Reviews*, 102, 221-241.
- [27] *Palacios-Barrios EE** & **Hanson JL**. (2019). Poverty and self-regulation: Connecting psychosocial processes, neurobiology, and the risk for psychopathology. *Comprehensive Psychiatry*, 90, 52-64. doi: <https://doi.org/10.1016/j.comppsy.2018.12.012>
- [26] **Hanson JL**, *Gilmore A**, Holmes CJ, Yu T, Barton AW, Beach SR, Galván A, MacKillop J, Windle M, Chen E, Miller GE, Sweet LH, & Brody GH. (2019). A family-focused intervention influences hippocampal-prefrontal connectivity through gains in self-regulation. *Child Development*. doi: 10.1111/cdev.13154
- [25] Miller AB, Sheridan MA, **Hanson JL**, McLaughlin KA, Bates JE, Lansford JE, Pettit GS, & Dodge KA. (2018). Dimensions of deprivation and threat, psychopathology, and potential mediators: A multi-year, longitudinal analysis. *Journal of Abnormal Psychology*, 127 (2), 160-170. doi: 10.1037/abn0000331
- [24] **Hanson JL**, Knodt AR, Brigidi BD, & Hariri AR. (2018). Heightened connectivity between the ventral striatum and medial prefrontal cortex as a biomarker for stress-related psychopathology: Understanding interactive effects of early and more recent stress. *Psychological Medicine*, 48 (11), 1835-1843, doi: 10.1017/S0033291717003348
- [23] Harms MB, Shannon-Bowen K, **Hanson JL**, & Pollak SD. (2018). Atypical Instrumental Learning and Brain Activity in Physically Abused Adolescents. *Developmental Science*, 21 (4), e12596 doi: 10.1111/desc.12596.
- [22] Chung MK, **Hanson JL**, Adluru N, Alexander AL, Davidson RJ, & Pollak, SD. (2017). Integrative Structural Brain Network Analysis in Diffusion Tensor Imaging. *Brain Connectivity*, 7(6): 331-346.
- [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*, 58(7), 770–778.
- [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*, 12(4), 419-429.
- [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 (*Trainee authors; #Undergraduate Student from my Research Lab; †Equal contribution to this work):

- [4] Rehder PD, **Hanson JL**, & Dodge KA. Brain Development During the Preschool Years and Implications for Prevention and Intervention.
- [3] Kennedy BR^{#†}, **Hanson JL**[†], van den Bos W, Rudolph KD, Davidson RJ, & Pollak SD. Accumbofrontal White Matter is Associated with Developmental Stress Exposure and Reward Learning.
- [2] Buser NJ*, Madan CR, & **Hanson JL**. Quantifying Numerical and Spatial Reliability of Amygdala and Hippocampal Subdivisions in FreeSurfer. Preprint available at: <https://www.biorxiv.org/content/10.1101/2020.06.12.149203v1>
- [1] Hair N, **Hanson JL**, Wolfe B, & Pollak SD. Charting Neurodevelopment from Infancy through Adolescence to Understand the Impact of Low Household Income on the Brain.

Manuscripts in Preparation: (*Trainee authors; †Equal contribution to this work):

- [3] Donofry SD, Stillman CM, **Hanson JL**, Sun S, Loucks EB, Forrester T, & Erickson, KI. Promoting brain health among adults exposed to early life adversity through physical activity: Potential mechanisms and theoretical framework.
- [2] Peckins MK, **Hanson JL**, Hyde LW, Hein TC, Muñoz-Velázquez J, Lopez-Duran NL, Brooks-Gunn J, McLanahan SS, Monk CS, & Mitchell C. Developmental timing and stability of socioeconomic hardship predicts gray mater volume in urban adolescents.
- [1] *Pahel CN*^{*}, **Hanson JL**[†], *Calma-Birling D*^{*}, Lansford JE, Bates JE, Pettit GS, & Dodge KA. Early poverty interacts with adolescent inhibitory control and physiological reactivity to predict adult externalizing problems.

Teaching & Mentoring

Teaching:

University of Pittsburgh

2021, Spring	Topics in Developmental Psychology: Risk, Resilience, and Early Stress (1323, Undergraduate, upper-level seminar) Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.63/5
2020, Fall	Topics in Cognitive Psychology: Emotion and the Brain (PSY1054, Undergraduate, upper-level seminar) Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.77/5
2020, Spring	Topics in Developmental Psychology: Risk, Resilience, and Early Stress (PSY1053, Undergraduate, upper-level seminar) Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.64/5
2019, Fall	Behavioral Neuroscience (PSY2475, Graduate level) Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.82/5
2019, Fall	Topics in Cognitive Psychology: Emotion and the Brain (PSY1054, Undergraduate, upper level seminar) Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.86/5
2019, Spring	Topics in Developmental Psychology: Risk, Resilience, and Early Stress (PSY1053, Undergraduate, upper-level seminar) Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.75/5

- 2018, Fall Topics in Cognitive Psychology: Emotion and the Brain (PSY1054, Undergraduate, upper-level seminar)
Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.86/5
- 2018, Spring Behavioral Neuroscience (PSY2475, Graduate level)
Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.82/5
- 2017, Spring Topics in Cognitive Psychology: Emotion and the Brain (PSY1054, Undergraduate, upper-level seminar)
Student Evaluations (average based on course organization, appropriateness of evaluation, and instructor effectiveness): 4.61/5

University of North Carolina at Chapel Hill

- 2016, Spring Postdoctoral Facilitator, Pro-seminar in Developmental Science: Cognitive Development from a Neuroscience Perspective (PSYC 781)
- 2015, Fall Postdoctoral Facilitator, Pro-seminar 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, Pro-seminar 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

- 2009, Fall Teaching Assistant, Introduction to Child Development (PSYCH 560)
- 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"

Primary Mentoring (Undergraduate):

University of Pittsburgh

- 2021 8 students for directed research credits (through the Psychology department, as well as the Neuroscience department)
- 2020 16 students for directed research credits (through the Psychology department, as well as the Neuroscience department)
- 2019 12 students for directed research credits (through the Psychology department, as well as the Neuroscience department)
- 2018 11 students for directed research credits (through the Psychology department, as well as the Neuroscience department)
- 2017-2018 3 students for directed research credits (through the Psychology department)

Primary Mentoring (Graduate):

- Fall 2019- Isabella Kahhale, Joint Clinical-Developmental Program (Department of Psychology)
- Fall 2019- Debbie Bitran, Developmental Program (Department of Psychology)
 - B² Training Grant (from Joint CMU-Pitt Center for the Neural Basis of Cognition) Recipient (2019-2021)
- Fall 2017- Esther Palacios-Barrios, Joint Clinical-Developmental Program (Department of Psychology)
 - National Science Foundation Graduate Research Fellowship (2019-

- 2022)
- Ford Fellow (2019-2022)

Mentoring Committees (Undergraduate):

Fall 2020-Spring 2021	Xiaoying Dong, Honors' Thesis, Department of Psychology
Fall 2020-Spring 2021	Sila Yavan, Honors' Thesis, Department of Neuroscience (lead mentor)
Fall 2020-Spring 2021	Maya Mauer, Honors' Thesis, Department of Psychology (committee chair)
Spring 2019-Fall 2019	Bryan Kennedy, Honors' Thesis, Department of Neuroscience (committee chair)
Spring 2018	Sarah Lazzaro, BPhil Thesis Committee, Department of Psychology
Fall 2017-Spring 2018	Shutian Shen, Honors' Thesis, Department of Psychology

Mentoring Committees (Graduate):

Summer 2021-present	Daniesha Hunter, Master's Thesis Committee (Department of Psychology)
Summer 2021-present	Daniesha Hunter, Graduate Advisory Committee (Department of Psychology)
Summer 2021-present	Stephanie Sequeira, Dissertation Committee (Department of Psychology)
Summer 2021-present	Nabila Jamal Orozco, Comprehensive Exam Committee (Department of Psychology)
Fall 2020-present	Samuel Elliott, Master's Thesis Committee (Department of Psychology)
Fall 2019- Spring 2021	Maria Perica, Master's Thesis Committee (Department of Psychology)
Spring 2019-Spring 2021	Brenden Tervo-Clemmens, Dissertation Committee (Department of Psychology)
Fall 2018-present	Tamara Podvysotska, Graduate Advisory Committee (Department of Psychology)
Fall 2019-Fall 2020	Laura Betancur, Dissertation Committee (Department of Psychology)
Summer 2020-Fall 2020	Whitney Ringwald, Comprehensive Exam Committee (Department of Psychology)
Summer 2018-Summer 2020	Rosalind Elliott, Dissertation Committee (Department of Psychology)
Summer 2019-Fall 2020	Stephanie Sequeira, Comprehensive Exam Committee
Spring 2018-Summer 2019	Susan Kuo, Dissertation Committee (Department of Psychology)
Spring 2018-Summer 2019	Chardée Galan, Dissertation Committee (Department of Psychology)
Spring 2018-Summer 2019	Dana Rosen, Dissertation Committee (Department of Psychology)
Spring 2018-Spring 2019	Orma Ravindranath, Master's Thesis Committee (Department of Psychology)
Spring 2018	Maria Camacho, Reprint Examination Committee (Department of Neuroscience)
Spring 2018-Fall 2018	Brenden Tervo-Clemmens, Comprehensive Exam Committee (Department of Psychology)
Fall 2018-Fall 2019	Stephanie Sequeira, Master's Thesis Committee (Department of Psychology)
Spring 2017-Fall 2017	Bart Larson, Dissertation Committee (Department of Psychology)
Fall 2016-Spring 2018	Thomas Kraynak, Master's Thesis Committee (Department of Psychology)
Fall 2016-present	Stephanie Sequeira, Graduate Advisory Committee (Department of Psychology)

Awards & Honors

2019	Robert L. Fantz Memorial Award for Young Psychologists American Psychological Foundation
2019	Matilda White Riley Behavioral and Social Sciences Early Stage Investigator Paper Awardee NIH Office of Behavioral and Social Sciences Research
2017	APS "Rising Star" American Psychological Society

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

Additional Research Training

06/2015	Structural Equation Modeling Workshop, Curran-Bauer Analytics	Chapel Hill, NC
	<i>Instructors:</i> Drs. Patrick Curran and Daniel Bauer	
08/2003	Analysis of Functional NeuroImages (AFNI) Boot Camp , Medical College of Wisconsin	Milwaukee, WI
	<i>Primary Instructor:</i> Dr. Robert Cox	
08/2003 - 08/2005	Post-Baccalaureate Researcher , Joint position at the Child Emotion Research Laboratory and the Waisman Center, Laboratory for Brain Imaging & Behavior, University of Wisconsin-Madison	Madison, WI

08/2003

Supervisors: Drs. Richard Davidson and Seth Pollak
Analysis of Functional NeuroImages (AFNI) Boot Camp Milwaukee, WI
Medical College of Wisconsin
Primary Instructor: Dr. Robert Cox

Invited Lectures & Colloquia

For Academic Audiences:

- [12] **Hanson JL.** (2019, June 10). Allostasis, Stress Sensitivity, & Adaptive Calibration After Early Adversity. **Lecture presented at the Developmental Risk and Resilience Unit, University College London**; London, England, UK.
- [11] **Hanson JL.** (2019, May 15). Early Adversity & Internalizing Psychopathology: Advancing Neurobiological Models and Focusing on Mechanism. **Lecture presented at the Carolina Consortium on Human Development 30th Anniversary Symposium (CCHD@30)**; Chapel Hill, NC.
- [10] **Hanson JL.** (2018, June 6). Focusing on Neurodevelopment and Motivation to Understand Socioeconomic Differences in Academic Achievement. **Lecture presented at the 6th International Workshop on Advanced Learning Sciences**, Pittsburgh, PA.
- [9] **Hanson JL.** (2017, October 12). Allostasis & adaptive calibration after early life adversity: Suggestive ideas from amygdala structure & function. **Lecture presented at the Developmental Affective Neuroscience Symposium, University of Pittsburgh- Department of Psychiatry**, Pittsburgh, PA.
- [8]. **Hanson JL.** (2017 October 3). Understanding Neurodevelopment and Cumulative Early Life Stress, **Lecture presented at 'The Seventh Annual on the Shoulders of Giants Scientific Symposium', Child Mind Institute, New York, NY.**
- [7] **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.
- [6] **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.
- [5] **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.
- [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:

- [9] **Hanson JL.** (2020, February 13). Understanding Adolescent Neurodevelopment: Moving from Basic Science to the Classroom. **Professional development lecture presented at the Winchester Thurston School**, Pittsburgh, PA.
- [8] **Hanson JL.** (2019, April 12). Impact of Poverty on Brain Development. **Lecture presented in conjunction with the Society for Neuroscience's BrainFacts.org and Annual Meeting of the National Science Teachers' Association**, St. Louis, MO
- [7] **Hanson JL & Walsh MJ.** (2019, March 29). Conversations with Clairton. (Presentation to school district and city officials). **Lecture present through "Clairton Cares"**, Clairton, PA.
- [6] **Hanson JL.** (2018, August 17). Connections Between Adverse Childhood Experiences & Health:

- Bridging “Neurons to Neighborhoods. **Lecture presented at the Positive Health Clinic, Allegheny Health Network, Pittsburgh, PA.**
- [5] **Hanson JL.** (2018, August 2). Building Strong Communities by Supporting Youth: Adversity, Brain Development and “Simple Interactions. **Lecture presented remotely to Save the Children USA (Kentucky Chapter)** via ReadyNation’s Brain Science Speakers Bureau.
- [4] **Hanson JL.** (2017, September 11). How Motivation & Cognition Factors May Shape Student Success. **Lecture presented at Northgate School District, School Board Meeting, Pittsburgh, PA.**
- [3] **Hanson JL.** (2017, September 7). Stress & Development. **Lecture presented at the Youth Research Advisory Board, Children’s Hospital of Pittsburgh, Pittsburgh, PA.**
- [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:

- [8] **Hanson JL.** Understanding the Impacts of Environmental Unpredictability and Volatility on Typical and Atypical Development. Panelists: Philip Fisher, Catherine Demers, Portia Miller, and Sarah Collier Villaume. Paper Symposium chaired at the **2021 biennial meeting of the Society for Research on Child Development, Virtual Meeting.**
- [7] **Hanson JL.** Connecting environmental experience to the emergence of self-regulation: Insights from typical and atypical populations. Panelists: Annie Brandes-Aitken, Stephen Braren, and Daniel Berry. Paper Symposium chaired at the **2019 biennial meeting of the Society for Research on Child Development, Baltimore, MA.**
- [6] **Pena CL & Hanson JL.** Enduring Consequences of Early Stress II. Panelists: Kevin Bath, Jeremy Gray, Bridget Callaghan, Taylor Keding, Carina Block, Elyse Morin, and Samantha Keller. Nanoymposium organized for the **2016 Annual Meeting for Society for Neuroscience, San Diego, CA.**
- [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 organized and chaired at 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 organized and chaired at 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 organized and chaired at the **2009 Annual Meeting for Society for Neuroscience, Chicago, IL.**

Talks:

- [11] **Hanson JL.** (2021, April 29). Advancing Novel Metrics of Neurobiology to Understand the Impacts of Early Adversity. **Lecture presented at the Annual Meeting of the Social Affective Neuroscience Society, Virtual Meeting.**
- [10] **Hanson JL.** (2020, October 23). fMRI Signal Variability in Reward Neural Hubs Relate to Early-Life Adversity And Symptoms Of Depression. **Lecture presented at the Annual Meeting of the International Society for Developmental Psychobiology, Virtual Meeting.**

[9] **Hanson JL.** (2020, September 9). Furthering Understanding of the Development of Psychopathology Through Rich Modeling of Developmental Process, Behavior, & Neurobiology. **Lecture presented at the Annual Flux Congress. Virtual Meeting**

- [8] **Hanson JL,** Calma-Birling D, Lansford J, Bates J, Bates GS, & Dodge KA. Early poverty interacts with adolescent inhibitory control and physiological reactivity to predict adult externalizing problems Paper presentation at the **2019 biennial meeting of the Society for Research on Child Development**, Baltimore, MA
- [7] **Hanson JL,** Knodt AR, Radtke SR, Brigidi BD, & Hariri AR. The interaction of childhood trauma and recent stress are associated with heightened ventral striatum-medial prefrontal cortex connectivity: Relations with depression and anxiety. Nanoyposium presentation at the **2016 annual meeting for Society for Neuroscience**, San Diego, CA.
- [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. Nanoyposium presentation at 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. Nanoyposium presentation at the **2012 annual meeting for Society for Neuroscience**, Washington, DC.
- [2] **Hanson JL.** Remarks at The Edward Zigler SRCD 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. Nanoyposium 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 (current): *Journal of Cognitive Neuroscience; Journal of Research on Adolescence; Affective Science*

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

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

Conference Reviewing: *2017 Biennial Meeting for the Society for Research in Child Development (2017)*

Ad hoc Journal Reviewing: *Affective Science; Archives of General Psychiatry; Behavioural Brain Research; Biological Psychology; Biological Psychiatry; Brain Informatics; Child Development; Cortex; Development & Psychopathology; Developmental Cognitive Neuroscience; Developmental Psychobiology; Developmental Psychology; Developmental Science; Frontiers (in Emotion Science); Genes, Brains, & Behavior; 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; Molecular Psychiatry; Nature Medicine; Nature Neuroscience; NeuroImage; NeuroImage: Clinical; Neuropsychopharmacology; Neuroscience Letters; Pediatrics; Proceedings from the National Academy of the Sciences; 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:

University of Pittsburgh

Spring 2019	Departmental IRB review, Department of Psychology
Fall 2018-Spring 2019	Joint Psychology/LRDC Faculty Search Committee
Fall 2018- present	Departmental Colloquium Committee, Department of Psychology
Summer 2017	Tim Post Award Selection Committee, Department of Psychology
Spring 2017-	Departmental Diversity Committee, Department of Psychology
Fall 2016-Spring 2017	Multimodal Neuroimaging Training Program Symposium, Co-Organizer

University of North Carolina at Chapel Hill

2014-2015	Colloquium Planning Committee, Carolina Consortium on Human Development
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University of Wisconsin-Madison

2011-2012	Colloquium Planning Committee, Department of Psychology
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Media Coverage (selected)

"Growing Up Through the Cracks." **Pittsburgh Post-Gazette** (2019, January 14). Retrieved January 31, 2019, from <https://newsinteractive.post-gazette.com/childhood-poverty-allegheeny-county-mapping-inequality/growing-up-through-the-cracks/>

"Strengthening self-regulation in childhood may improve resiliency later in life." **Medical Xpress** (2018, November 1). Retrieved November 18, 2018, from <https://medicalxpress.com/news/2018-11-self-regulation-childhood-resiliency-life.html>

"Pitt Study: Abuse in childhood can lead to misbehavior later." **Pittsburgh Post-Gazette** (2017,

March 1). Retrieved March 1, 2017, from <http://www.post-gazette.com/news/health/2017/03/01/Pitt-Study-Abuse-during-childhood-can-lead-to-misbehavior-later-in-life/stories/201703010043>

"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