

**Elisabeth Conradt, Ph.D.**

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CURRICULUM VITAE

**Personal Data**

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**Academic Positions**

2014 - present                      Assistant Professor, Developmental Psychology,  
University of Utah Department of Psychology

    Adjunct Assistant Professor of Pediatrics  
University of Utah School of Medicine

**Education**

1999-2003      B.A.                      University of North Carolina, Chapel Hill (Psychology)  
2005-2007      M.A.                      University of Oregon (Psychology)  
2005-2011      Ph.D.                      University of Oregon (Psychology)

**Predoctoral Training**

2010-2011      Internship              Children's Hospital of Philadelphia (Early Childhood Track)  
Leadership Education in Neurodevelopmental and Related  
Disabilities Fellow

**Postdoctoral Training**

2011-2014      Postdoctoral              Brown Center for the Study of Children at Risk, Brown University  
Researcher

**Bibliography**

**Peer-Reviewed Manuscripts**

1. **Conradt, E.**, & Ablow, J.C. (2010). Infant physiological response to the still face paradigm: Contributions of maternal sensitivity and infants' early regulatory behavior. *Infant Behavior and Development*, 33, 251-265.
2. Lester, B., Marsit, C., **Conradt, E.**, Bromer, C., & Padbury, J. (2012). Behavioral epigenetics and the developmental origins of child mental health disorders. *Journal of Developmental Origins of Health and Disease*, 3, 395-408.
3. **Conradt, E.**, Manian, N., & Bornstein, M.H. (2012). Screening for depression in the

postpartum using the Beck Depression Inventory-II: What logistic regression reveals. *Journal of Reproductive and Infant Psychology*, 30, 427-435.

4. **Conradt, E.**, Ablow, J.C., & Measelle, J. (2013). Poverty, problem behavior and promise: Differential susceptibility among infants reared in poverty. *Psychological Science*, 24, 235-242.
5. Lester, B. **Conradt, E.**, & Marsit, C. (2013). Epigenetic basis for the development of depression in children. *Clinical Obstetrics & Gynecology*, 56, 556-565.
6. **Conradt, E.**, Sheinkopf, S., Lester, B., Tronick, E., LaGasse, L.L., Shankaran, S., Bada, H., Bauer, C.R., Whitaker, T.M., & Hammond, J.A. (2013). Prenatal substance exposure: Neurobiologic organization at 1 month. *The Journal of Pediatrics*, 163, 989-994.
7. **Conradt, E.**, Lester, B.M., Appleton, A.A., Armstrong, D.A., & Marsit, C.J. (2013). The roles of DNA methylation of *NR3C1* and *11 $\beta$ -HSD2* and exposure to maternal mood disorder in utero on newborn neurobehavior. *Epigenetics*, 8, 1321-1329.
8. **Conradt, E.**, LaGasse, L.L., Shankaran, S., Bada, H., Bauer, C.R., Whitaker, T.M., Hammond, J.A., & Lester, B.M. (2013). Physiologic correlates of neurobehavioral disinhibition that relate to drug use and risky sexual behavior in adolescents with prenatal substance exposure. *Developmental Neuroscience*, 36, 306-315.
9. **Conradt, E.**, Abar, B., Sheinkopf, S., Lester, B., LaGasse, L.L., Seifer, R., Shankaran, S., Bada, H., Bauer, C.R., Whitaker, T.M., Hinckley, M., Hammond, J.A., & Higgins, R.D. (2014). The roles of prenatal substance exposure and early adversity on parasympathetic functioning from 3 to 6 years of age. *Developmental Psychobiology*, 56, 821-835.
10. Armstrong, D.A., Lesueur, C., **Conradt, E.**, Lester, B.M., & Marsit, C.J. (2014). Global and gene-specific DNA methylation across multiple tissues in early infancy: Implications for children's health research. *The Journal of the Federation of American Societies for Experimental Biology*.
11. Lester, B.M., **Conradt, E.**, Marsit, C.H. (2014). Are epigenetic changes in the intrauterine environment related to newborn neurobehavior? *Epigenomics*, 6, 175-180.
12. **Conradt, E.**, Fisher, P., DeGarmo, D., Abar, B., Lester, B., LaGasse, L.L., Shankaran, S., Bada, H., Bauer, C.R., Whitaker, T.M., & Hammond, J.A. (2014). The contributions of early adverse experiences and trajectories of RSA on the development of neurobehavioral disinhibition among children with prenatal substance exposure. *Development and Psychopathology*, 26, 901-916.

13. **Conradt, E.**, Abar, B., Lester, B.M., LaGasse, L.L., Shankaran, S., Bada, H., Bauer, C.R., Whitaker, T.M., & Hammond, J.A. (2014). Cortisol reactivity to social stress as a mediator of early adversity on risk and adaptive outcomes, *Child Development*, *85*, 2279-2298.
14. **Conradt, E.**, \*Fei, M., LaGasse, L., Tronick, E.Z., Guerin, D., Gorman, D., Marsit, C.J., & Lester, B. (2015). Prenatal predictors of infant self-regulation: The contributions of placental DNA methylation of *NR3C1* and neuroendocrine activity. *Frontiers in Behavioral Neuroscience*, *9*.
15. Lester, B.M., **Conradt, E.**, & Marsit, C. (2016). Introduction to the special section on epigenetics and child development. *Child Development*, *87*, 29-37.
16. **Conradt, E.**, Lester, B., Hawes, K., Tronick, E., & Marsit, C. (2016). The contributions of maternal sensitivity and maternal depressive symptoms to epigenetic processes and neuroendocrine functioning. *Child Development*, *87*, 73-85.
17. **Conradt, E.**, Beauchaine, T., Abar, B., Lester, B.M., Lagasse, L.L., Shankaran, S., Bada, H., Bauer, C.R., Whitaker, T.M., & Hammond, J.A. (2016). RSA reactivity at one month moderates the relation between early caregiving stress exposure and biobehavioral outcomes at age three. *Psychophysiology*, *53*, 83-96.
18. **Conradt, E.\***, LaGasse, L.\* , Karalunas, S.L., Dansereau, L.M., Butner, J.E., & Lester, B.M. (2016). Transactional relations between caregiving stress, executive functioning, and problem behavior from early childhood to adolescence. *Development and Psychopathology*, *28*, 743-756.
19. \*\*Ostlund, B.D., **Conradt, E.**, Crowell, S.E., Tyrka, A.R., Marsit, C.M., & Lester, B.M. (2016). Prenatal stress, fearfulness, and the epigenome: Sex differences in DNA methylation of the glucocorticoid receptor gene. *Frontiers in Behavioral Neuroscience*, *10*.
20. \*\*Ostlund, B.D., Measelle, J., Laurent, H., **Conradt, E.**, & Ablow, J. (2017). Shaping emotion regulation: Attunement, symptomatology, and stress recovery within mother-infant dyads. *Developmental Psychobiology*, *59*, 15-25.
21. Fong, M., Measelle, J., **Conradt, E.**, & Ablow, J. (2017). Links between early baseline cortisol, attachment classification, and problem behaviors: A test of differential susceptibility versus diathesis-stress. *Infant Behavior and Development*, *46*, 158-168.
22. **Conradt, E.** (2017). Using principles of behavioral epigenetics to advance research on early-life stress. *Child Development Perspectives*.

\*The first and second authors contributed equally to this work

\*\*Denotes student co-author

### Book Chapters

23. Rothbart, M.K., Sheese, B., & **Conradt, E.** (2009). Childhood Temperament. In P. J. Corr & G. Matthews (Eds.), *The Cambridge Handbook of Personality Psychology* (pp. 177-190). Cambridge, UK: Cambridge University Press.
24. Levine, T.P., Sheinkopf, S.J., **Conradt, E.**, Goodwin, M., *in press*. Psychophysiologic Arousal to Social Stress in Autism Spectrum Disorders. *The Comprehensive Guide to Autism*, published by Springer. V. Preedy, Ed.

### Selected National Presentations

1. **Conradt, E.**, Passey, E., Barr, C., Lindell, S., Suomi, S., & Higley, D. (2016, May). Programming of the infant HPA axis by maternal rearing environment: Evidence from experimental research with rhesus macaques (*Macaca mulatta*). Paper presented at the International Congress on Infant Studies, New Orleans, LA.
2. **Conradt, E.**, DeGarmo, D., Lester, B., LaGasse, L., Shankaran, S., Bada, H., Bauer, C., Whitaker, T., & Hammond, J. (2015, July). Cortisol as a biomarker for neurobehavioral disinhibition. Paper presented at the International Society for Research in Child and Adolescent Psychopathology, Portland, OR.
3. **Conradt, E.**, Fei, M., LaGasse, L., Tronick, E., Guerin, D., Gorman, D., Marsit, C.J., & Lester, B.M. (2015, April). Maternal sensitivity buffers the effect of maternal depression on DNA methylation and neuroendocrine functioning. Paper presented at the biannual meeting of the Society for Research in Child Development, Philadelphia, PA.
4. **Conradt, E.**, Lester, B., Appleton, A., Armstrong, D., & Marsit, C. (2014, July). The roles of DNA methylation of *11β-HSD2* and *NR3C1* and exposure to maternal mood disorder in utero on newborn neurobehavior. Paper presented at the biannual meeting of the International Conference on Infant Studies, Berlin, Germany.
5. **Conradt, E.**, Abar, B., Lester, B., LaGasse, L., Bauer, C.R., Shankaran, S., Bada, H.S., Whitaker, T.M., & Hammond, J. (2013, April). The contributions of early adverse experiences and trajectories of RSA on the development of neurobehavioral disinhibition. Paper presented at the biannual meeting of the Society for Research in Child Development, Seattle, WA.
6. **Conradt, E.**, Sheinkopf, S., Bauer, C.R., Shankaran, S., Bada, H.S., Whitaker, T.M., Lagasse, L.L., Hammond, J., & Lester, B. (2012, June). Parasympathetic regulation in response to orientation among infants with and without prenatal drug exposure. Paper presented at the biannual meeting of the International Conference on Infant Studies, Minneapolis, MN.

Elisabeth Conradt, Ph.D.

7. **Conradt, E.**, Abar, B., Bauer, C.R., Shankaran, S., Bada, H.S., Whitaker, T.M., Lagasse, L.L., Hammond, J., & Lester, B. (2012, June). Developmental origins of RSA reactivity in early childhood: Contributions of prenatal substance exposure and early adversity. Paper presented at the biannual meeting of the International Conference on Infant Studies, Minneapolis, MN.
8. **Conradt, E.**, Ablow, J.C., Measelle, J., & Laurent, H (2010, October). Fine tuning: Behavioral and physiological attunement in mothers and infants following social challenge. Paper presented at the annual meeting of the Society for Psychophysiological Research, Portland, OR.
9. **Conradt, E.**, Ablow, J.C., Measelle, J., & Musser, E. (2009, April). The independent and joint contributions of maternal sensitivity and infant temperament to infant physiological regulation. Poster presented at the biannual meeting of the Society for Research in Child Development, Denver, CO.
10. **Conradt, E.**, Ablow, J., & Measelle, J. (2008, March). Using the still face to assess bio-behavioral indicators of emotion dysregulation in high-risk mother/infant dyads. Symposium co-chair and presenter of paper at the biannual meeting of the International Conference on Infant Studies, Vancouver, BC.
11. **Conradt, E.** Ablow, J.C., Measelle, J., & McMahon, R. (2008, March). Pre- to postnatal continuity in physiological responses to infant cries among women with anxiety. Poster presented at the biannual meeting of the International Conference on Infant Studies, Vancouver, BC.
12. **Conradt, E.**, & Ablow, J.C. (2007, March). Psychosocial correlates of expectant Women's physiological response to infant cries. Poster presented at the biannual meeting of the Society for Research in Child Development, Boston, MA.
13. Manian, N., **Conradt, E.**, & Bornstein, M.H. (2004, May). Agreement between maternal ratings and observations of infant temperament: Do depressed mothers disagree more than well mothers? Poster presented at the annual convention of the American Psychological Society, Chicago, IL.
14. **Conradt, E.**, Sparenborg, J.D, Gura, T.L., Higley, J.D., & Suomi, S.J. (2002, August). Genetic and environmental determinants of rhesus macaque (*Macaca mulatta*) relative dominance rank. Poster presented at the summer student poster session, National Institutes of Health, Bethesda, MD.

## Research Funding

2014-Present	K08 Mentored Clinical Scientist Research Career Development Award The epigenetic basis of stress reactivity: Implications for drug-exposed infants 1K08DA038959-01A1 NIH/NIDA Role: Principal Investigator
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2016-Present	R21 NIH/NIMH Advancing the science and technology of prenatal programming research 1R21MH109777-01 Role: Co-Investigator
2015-Present	1UM1HL12871101 Bridging the gap between genomics and clinical outcomes in congenital heart disease NIH/NHLBI, NICHD Role: "Other significant Contributor"
2016-Present	Neuroscience Initiative Collaborative Pilot Project Identifying infant neurophysiological signatures linked with prenatal exposure to maternal anxiety (\$49,300) Role: Principal Investigator
2014-Present	Interdisciplinary Research Pilot Program award, University of Utah Innovative measurements of socio-economic status and maternal health in pregnancy (\$10,000) Role: Principal Investigator
2014-2016	Consortium for Families and Health Faculty research award, University of Utah Maternal depression: Epigenetic pathways to child problem behavior (\$10,000) Role: Principal Investigator
2011-2014	Ruth L. Kirschstein F32 National Research Service Award The Impact of Prenatal Cocaine Exposure, Environmental Risk, and Trajectories of Vagal Tone on Psychopathology and Substance Use F32DA032175 NIH/NIDA Role: Principal Investigator
2009	Beverly Fagot Dissertation Fellowship <i>Project Title:</i> Differential Susceptibility to Rearing Influences among Infants Living in Poverty: The Role of Infant Autonomic Functioning <i>Funding Source:</i> The University of Oregon
2003-2004	Post-Baccalaureate Intramural Research Training Award at the National Institute of Child Health and Human Development <i>Project Title:</i> Social and Emotional Development Among Infants of Depressed and Nondepressed Mothers <i>Funding Source:</i> The National Institute of Child Health and Human Development

### Unfunded Grant Proposals

- 2/2014 R21 NIH/NICHD  
The roles of maternal caregiving and epigenetics on infant stress reactivity  
1R21TW009797-01  
Role: Principal Investigator
- 3/2014 R21 NIH/NIMH  
Prenatal stress programming of offspring neurobehavior  
1R21MH104565-01  
Role: Principal Investigator

### Honors and Awards

2017	International Society for Developmental Psychobiology Kucharski Young Investigator Award
2017	Society for Research in Child Development Early Career Research Contributions Award
2016	Vice President's Clinical and Translational Research Scholars Program, University of Utah
2015	Association for Psychological Science Rising Star
2015	Victoria S. Levin Grant for Early Career Success in Young Children's Mental Health Research from the Society for Research in Child Development
2012, 2014	NIDA Clinical Research Loan Repayment Program Award
2012	International Society for Developmental Psychobiology Travel Award
2009	Marthe E. Smith Graduate School Award for Academic Excellence from the University of Oregon
2008	International Society on Infant Studies Travel Fellowship
2006-2009	University of Oregon Graduate School Travel Award
2006	Gary E. Smith summer grant, University of Oregon
2006	National Science Foundation Graduate Fellowship Honorable Mention
2003	<i>Magna Cum Laude</i> , University of North Carolina at Chapel Hill

### Invited Talks

- 3/2016 "The Intergenerational transmission of emotion dysregulation: Testing the programming hypothesis via epigenetic methods" Indiana University Department of Psychological and Brain Sciences
- 3/2017 "Advancing the science of early life stress research using epigenetic methods" University of Nevada Las Vegas experimental psychology proseminar series.

### Teaching Experience

- 2015-present Cognitive development (graduate core developmental course)

Elisabeth Conradt, Ph.D.

	Behavioral epigenetics (graduate and advanced undergraduate seminar) Infancy (undergraduate)
2005-2010	Graduate teaching fellow, University of Oregon, statistical methods in psychology, psychology of music, marriage and family therapy, mind and the brain, mind and society
2006-2008	Undergraduate Psychology Co-Instructor, University of Oregon, Social Development
2002	Undergraduate teaching assistant, University of North Carolina at Chapel Hill, statistical methods in psychology

### **Professional Memberships**

American Psychological Association  
Society for Research in Child Development  
International Society on Infant Studies  
American Psychological Society

### **Journal Related Activity**

Ad Hoc Reviewer:

*Child Development; Psychophysiology; Epigenetics; Clinical Epigenetics; Pediatrics; Journal of Abnormal Child Psychology; Developmental Psychobiology; Psychology of Addictive Behaviors; Journal of Experimental Child Psychology; Parenting: Science and Practice; Infant Behavior and Development; Journal of Child Psychology and Psychiatry; Infant and Child Development; Society for Research in Child Development mentored reviewer for 2011 Biennial Meeting; Society for Research in Child Development Biennial Meeting reviewer 2013*

Special section co-editor (with Barry Lester, PhD and Carmen Marsit, PhD):

*Child Development: "Special section on behavioral epigenetics"*

### **Grant Reviews**

2016	US-Israel Binational Science Foundation
2014-2017	National Institutes of Health Loan Repayment Program reviewer
2012	The Netherlands Organization for Health Research and Development

### **Specialized Training and Workshops**

2014	Epigenetic methods Instructor: Carmen Marsit, PhD
2010-2011	Leadership Education in Neurodevelopmental and Related Disabilities (LEND) Program <i>Training Directors:</i> Judy Silver, Ph.D, and Nathan Blum, M.D.



Elisabeth Conradt, Ph.D.

- 2009      Newborn Behavioral Observations Training, Harvard University  
Instructors: Kevin Nugent, Ph.D., and Susan Minear, Ph.D.
- 2009      Multi-level Linear Models, University of North Carolina at Chapel Hill  
Instructors: Patrick Curran, Ph.D., and Dan Bauer, Ph.D.
- 2008      The Marte Meo Method, Oregon Social Learning Center and the University of  
Oregon  
Instructor: Ingegerd Wirtburg, Dr. Med SC
- 2006      Cognitive Behavioral Therapy for Depression, University of Oregon  
Instructor: Christine Padesky, Ph.D.
- 2006      Strange Situation Coding Training, Institute of Child Development, University of  
Minnesota.  
Instructors: Alan Sroufe, Ph.D., and Elizabeth Carlson, Ph.D.