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EDUCATION AND TRAINING

2019-Present Postdoctoral Scholar

Dept. of Psychology

The Pennsylvania State University Advisor: Koraly Pérez-Edgar, Ph.D.

2015-2019 Ph.D. in Developmental Psychology

Dept. of Psychology University of Utah

Advisor: Elisabeth Conradt, Ph.D.

2013-2015 M.S. in Developmental Psychology

Dept. of Psychology University of Oregon

Advisors: Jeff Measelle, Ph.D. & Jennifer Ablow, Ph.D.

2009-2013 B.S., Psychology

University of Oregon

PUBLICATIONS

- 1. **Ostlund, B.D.**, Myruski, S., Buss, K., & Pérez-Edgar, K.E. (*in press*). The centrality of temperament to the Research Domain Criteria (RDoC): The earliest building blocks of psychopathology. *Development and Psychopathology*.
- 2. **Ostlund, B.D.**, Pérez-Edgar, K.E., Shisler, S., Terrell, S., Godleski, S., Schuetze, P., & Eiden, R.D. (*in press*). Prenatal substance exposure and maternal hostility from pregnancy to toddlerhood: Associations with temperament at 16-months of age. *Development and Psychopathology*.
- 3. **Ostlund, B.**, Donoghue, T., Anaya, B., Gunther, K.E, Karalunas, S., Voytek, B., & Pérez-Edgar, K.E. (2021). Spectral parameterization for studying neurodevelopment: How and why. *PsyArXiv*. https://doi.org/10.31234/osf.io/btqyk
- 4. **Ostlund, B.D.**, Alperin, B., Drew, T., & Karalunas, S. (2021). Behavioral and cognitive correlates of the aperiodic (1/*f*-like) exponent of the EEG power spectrum in adolescents with and without ADHD. *Developmental Cognitive Neuroscience*, 48, 100931. https://doi.org/10.1016/j.dcn.2021.100931

- 5. Gao, M., **Ostlund, B.D.**, Brown, M.A., Kaliush, P., Terrell, S., Vlisides-Henry, R.D., Raby, L., Crowell, S.E., & Conradt, E. (2021). Prenatal maternal transdiagnostic, RDoC-informed, predictors of newborn neurobehavior: Differences by sex. *Development and Psychopathology*, 1-12. https://doi.org/10.1017/S0954579420002266
- 6. **Ostlund, B.D.**, Olavson, K., Brown, M.A., Shakiba, N., Saenz, C., Crowell, S.E., & Conradt, E. (2021). Maternal mindfulness during pregnancy predicts newborn neurobehavior. *Developmental Psychobiology*, 1-9. https://doi.org/10.1002/dev.22131
- 7. Pérez-Edgar, K., LoBue, V., Buss, K.A., Field, A.P., & the LAnTs Team (2021). Study Protocol: Longitudinal Attention and Temperament study (LAnTs). *Frontiers in Psychiatry*, 12, 656958. https://doi.org/fpsyt.2021.656958
- 8. Conradt, E., Shakiba, N., **Ostlund, B.D.**, Terrell, S., Kaliush, P., Shakib, J., & Crowell, S.E. (2020). Prenatal hair cortisol concentrations are related to maternal prenatal emotion dysregulation but not newborn outcomes. *Developmental Psychobiology*, *62*, 758-767. https://doi.org/10.1002/dev.21952
- 9. **Ostlund, B.D.**, Vlisides-Henry, R., Crowell, S.E., Raby, K.L., Terrell, S., Brown, M., Kaliash, P., Tinajero, R., Shakiba, N., Monk, C., Shakib, J., Buchi, K.F., & Conradt, E. (2019). Intergenerational transmission of emotion dysregulation Part II: Developmental origins of newborn neurobehavior. *Development and Psychopathology*, *31*, 833-846. https://doi.org/10.1017/S0954579419000440
- 10. Conradt, E., **Ostlund, B.D.**, Geurin, D., Armstrong, D.A., Marsit, C.J., Tronick, E., LaGasse, L., & Lester, B.M. (2019). DNA methylation of NR3C1 in infancy: Associations between maternal caregiving and infant sex. *Infant Mental Health Journal*, 40, 513-522. https://doi.org/10.1002/imhj.21789
- 11. Lin, B.[†], **Ostlund, B.D.**[†], Conradt, E., LaGasse, L., & Lester, B.M. (2018). Testing the programming of temperament and psychopathology in two independent samples of children with prenatal substance exposure. *Development and Psychopathology, 30*, 1023-1040. https://doi.org/10.1017/S0954579418000391. [†] *Denotes co-first authorship*
- 12. Measelle, J.R. & **Ostlund, B.D.** (2018). Anxiety. In M.H. Bornstein (Eds.), *The SAGE Encyclopedia of Lifespan Development*. Thousand Oaks, CA: SAGE Publications.
- 13. David, J., Measelle, J.R., **Ostlund, B.D.**, & Ablow, J.C. (2017). Association between early life adversity and inflammation during infancy. *Developmental Psychobiology*, *59*, 696-702. https://doi.org/10.1002/dev.21538
- 14. **Ostlund, B.D.**, Measelle, J.R., Laurent, H., Conradt, E., & Ablow, J.C. (2017). Shaping emotion regulation: Attunement, symptomatology, and stress recovery within mother-infant dyads. *Developmental Psychobiology*, *59*, 15-25. https://doi.org/10.1002/dev.21448

15. **Ostlund, B.D.**, Conradt, E., Crowell, S.E., Tyrka, A.R., Marsit, C.J., & Lester, B.M. (2016). Prenatal stress, fearfulness, and the epigenome: Exploratory analysis of sex differences in DNA methylation of the glucocorticoid receptor gene. *Frontiers in Behavioral Neuroscience*, 10, 1-8. https://doi.org/10.3389/fnbeh.2016.00147

MANUSCRIPTS UNDER REVIEW

- 1. Anaya, B., **Ostlund, B.D.**, LoBue, V., Buss, K., & Pérez-Edgar, K. (*invited revisions*). Establishing the psychometric properties of frontal asymmetry and delta-beta coupling from 8- to 18-months of age.
- 2. Karalunas, S., **Ostlund, B.D.**, Alperin, B.R., Figuracion, M., Gustafsson, H., Michiko Deming, E., Foti, D., Antovich, D., Nigg, J., & Sullivan, E. (*invited revisions*). Aperiodic exponent of the EEG power spectrum can be reliably measured in early development and predicts ADHD risk.
- 3. Gao, M., Speck, B., **Ostlund, B.D.**, Neff, D., Shakiba, N., Vlisides-Henry, R.D., Kaliush, P.R., Molina, N.C., Thomas, L., Raby, K.L., Conradt, E., & Crowell, S.E. (*under review*). Developmental foundations of physiological dynamics among mother-infant dyads: The role of newborn neurobehavior.

SYMPOSIUM PRESENTATIONS

1. **Ostlund, B.D.**, Raby, K.L., Williams, L., Crowell, S.E., Conradt, E., & Drew, T. (2021, April 7-9). Linking prenatal maternal distress and infant neural noise to problem behavior in toddlerhood. In M. Camerota (Chair), *Prenatal distress and neurobehavior in infancy and early childhood: Testing putative biological mechanisms* [Symposium]. Society for Research in Child Development (SRCD) Biennial Meeting, Minneapolis, MN, United States

*Presented virtually due to COVID-19

- 2. Perez-Edgar, K., Anaya, B., **Ostlund, B.D.**, Buss, K., & LoBue, V. (2020, December). *Neural noise at 8-months predicts infant internalizing and externalizing behavior*. Paper presented at the annual meeting of the American College of Neuropsychopharmacology. **Presented virtually due to COVID-19*
- 3. Vlisides-Henry, R.D., Kaliush, P.R., Crowell, S.E., **Ostlund, B.D.**, Brown, M.A., Shakiba, N., Terrell, S., Smid, M.C., & Conradt, E. (2019, November). *Maternal prenatal anxious behavior predicts newborn outcomes: Implications for maternal and neonatal health care*. Paper presented as part of a symposium for the annual meeting of the Association of Behavioral and Cognitive Therapies; Atlanta, GA.
- 4. Brown, M.A., Terrell, S., **Ostlund, B.D.**, Crowell, S.E., & Conradt, E. (2019, March). *Intergenerational transmission baseline RSA: The role of maternal emotion dysregulation*. Paper presented as part of a symposium for the biennial meeting for the Society for Research in Child Development; Baltimore, MD.

- 5. Shakiba, N., Brown, M.A., Terrell, S., **Ostlund, B.D.**, Crowell, S.E., & Conradt, E. (2019, March). *Prospective prenatal predictors of maternal sensitivity*. Paper presented as part of a symposium for the biennial meeting for the Society for Research in Child Development; Baltimore, MD.
- 6. **Ostlund, B.D.**, Vlisides-Henry, R., Crowell, S.E., Raby, K.L., Terrell, S., Brown, M., Tinajero, R., Shakiba, N., Monk, C., Buchi, K.F., & Conradt, E. (2018, October). *Intergenerational transmission of emotion dysregulation Part II: Developmental origins of newborn neurobehavioral risk for psychopathology*. Paper presented as part of a perinatal preconference at the annual meeting of the International Society on Developmental Psychobiology; San Diego, CA.
- 7. **Ostlund, B.D.**, Williams, L.H., Conradt, E., Payne, B., Crowell, S.E., & Drew, T. (2018, July). *The adaptive influence of pregnancy-specific anxiety on infant neurophysiology*. Paper presented at the annual meeting of the Cognitive Science Association for Interdisciplinary Learning; Hood River, OR.
- 8. **Ostlund, B.D.**, Lin, B., Conradt, E., & Lester, B. (2018, July). *Temperament profiles among infants with prenatal substance exposure: Neonatal origins and implications for neurobehavioral development.* Paper presented as part of a paper symposium at the biennial meeting of the International Congress of Infant Studies; Philadelphia, PA.
- 9. Caron, Z., **Ostlund, B.D.**, Brown, M.A., Terrell, S., Crowell, S.E., & Conradt, E. (2018, July). *The combined effects of prenatal exposure to maternal stress physiology and acute stress on newborn neurobehavior*. Paper presented as part of a symposium at the biennial meeting for the International Congress of Infant Studies; Philadelphia, PA.
- 10. **Ostlund, B.D.**, Williams, L., Conradt, E., & Drew, T. (2017, April). *Allocating attention to threat: Pupil dilation and fearfulness in infancy.* Paper presented as part of a paper symposium at the biennial meeting of the Society for Research in Child Development; Austin, TX.
- 11. **Ostlund, B.D.**, Conradt, E., Crowell, S., Tyrka, A.R., Marsit, C.J., & Lester, B. (2017, April). *Prenatal stress, fearfulness, and the epigenome: Sex differences in DNA methylation of the glucocorticoid receptor gene*. Paper presented as part of a paper symposium at the biennial meeting of the Society for Research in Child Development; Austin, TX.

POSTER PRESENTATIONS

1. **Ostlund, B.D.**, Anaya, B., LoBue, V., Buss, K., & Pérez-Edgar, K.E. (2020, September). *Charting trajectories of neural noise across the first two years of life*. Poster presented at the Flux Society annual meeting.

*Presented virtually due to COVID-19

2. **Ostlund, B.D.**, Burris, J.L., Anaya, B., LoBue, V., Buss, K.A., & Pérez-Edgar, K.E. (2020, July). *Neural noise associates with vigilance to threat in the first year of life*. Poster presented at the biennial meeting of the International Congress on Infant Studies; Glasgow, Scotland.

*Presented virtually due to COVID-19

3. Kaliush, P.R., Brown, M., Crowell, S.E., Tinajero, R., Raby, K.L., Williams, P.G., **Ostlund, B.D.**, Terrell, S., Neff, D., & Conradt, E. (2020, July). *Prenatal predictors of infant and maternal sleep*. Poster to be presented at the International Congress of Infant Studies; Glasgow, Scotland.

*Presented virtually due to COVID-19

4. Vlisides-Henry, R.D., Crowell, S.E., Butner, J., Terrell, S., Neff, D., Shakiba, N., **Ostlund, B.D.**, & Conradt, E. (2020, July). *Intrapersonal dynamics: Physiological-behavioral coordination as a marker of prenatal emotion dysregulation*. Poster to be presented at the International Congress of Infant Studies Biennial Meeting; Glasgow, Scotland.

*Presented virtually due to COVID-19

- 5. **Ostlund, B.D.**, Alonso, D., Williams, L., Crowell, S.E., Conradt, E., & Drew, T. (2019, March). *Developmental origins and temperamental correlates of neural reactivity to novelty among 7-month-olds: An ERP study*. Poster presented at the biennial meeting for the Society for Research in Child Development; Baltimore, MD.
- 6. Terrell, S., Conradt, E., **Ostlund, B.D.**, LaGasse, L., & Lester, B. (2019, March). *The development of callous-unemotional traits: Violence exposure and cortisol reactivity.* Poster presented at the biennial meeting for the Society for Research in Child Development; Baltimore, MD.
- 7. Kaliush, P., **Ostlund, B.D.**, Terrell, S., Brown, M.A., Conradt, E., & Crowell, S.E. (2019, March). *Maternal childhood maltreatment experiences and emotion dysregulation predict newborn neurobehavioral outcomes*. Poster presented at the Society for Research in Child Development; Baltimore, MD.
- 8. Neff, D., Brown, M.A., Terrell, S., **Ostlund, B.D.**, Kaliush, P., Vlisides, R.D., Crowell, S.E., & Conradt, E. (2019, March). *Prenatal programming of the infant sympathetic nervous system.* Poster presented at the Society for Research in Child Development; Baltimore, MD.
- 9. Vlisides-Henry, R.D., **Ostlund, B.D.**, Terrell, S., Brown, M.A., Conradt, E., & Crowell, S.E. (2019, March). *Pregnant women's self-reported emotion dysregulation predicts newborn neurobehavior*. Poster presented at the Society for Research in Child Development; Baltimore, MD.
- 10. Vlisides-Henry, R.D., **Ostlund, B.D.**, Conradt, E., & Crowell, S.E. (2018, July). *Associations between maternal emotion dysregulation during pregnancy and newborn neurobehavior*. Poster presented at the biennial meeting of the International Congress of

- 11. Brown, M.A., Conradt, E., **Ostlund, B.D.**, Terrell, S., & Crowell, S.E. (2018, July). *The unique and interactive effects of prenatal exposure to maternal emotion dysregulation and acute stress on infant stress reactivity.* Poster presented at the biennial meeting for the International Congress of Infant Studies; Philadelphia, PA.
- 12. Kaliush, P., Terrell, S., **Ostlund, B.D.**, Brown, M.A., Conradt, E., & Crowell, S.E. (2018, July). *Maternal childhood trauma and stress during pregnancy*. Poster presented at the biennial meeting for the International Congress of Infant Studies; Philadelphia, PA.
- 13. **Ostlund, B.D.**, Conradt, E., Marsit, C.J., Lester, B., & Tyrka, A.R. (2016, May). *FKBP5 in infancy: Interaction between maternal history of stress and placental methylation of HSD11β2*. Poster presented as part of a poster symposium at the biennial meeting of the International Congress of Infant Studies; New Orleans, LA.
- 14. **Ostlund, B.D.**, Measelle, J.R., Conradt, E., & Ablow, J.C. (2015, March). *Differential susceptibility to childhood anxiety: Role of maternal anxiety and infant respiratory sinus arrhythmia*. Poster presented at the biennial meeting of the Society for Research in Child Development; Philadelphia, PA.
- 15. **Ostlund, B.D.**, Measelle, J.R., Laurent, H.M., Conradt, E., & Ablow, J.C. (2014, July). *Shaping psychophysiology: Attunement and divergence of respiratory sinus arrhythmia within mother-infant dyads.* Poster presented at the biennial meeting of the International Congress of Infant Studies; Berlin, Germany.
- 16. **Ostlund, B.D.**, Measelle, J.R., Conradt, E., & Ablow, J.C. (2013, April). *Mother-infant affective synchrony influences the association between maternal depression and infant vagal functioning*. Poster presented at the biennial meeting of the Society for Research in Child Development; Seattle, WA.

TEACHING EXPERIENCE

2018	Graduate Instructor	Development in Infancy University of Utah
2018	Guest Lecturer: Temperament Dr. Elisabeth Conradt	Development in Infancy University of Utah
2018	Guest Lecturer: Epigenetics Dr. Brennan Payne	Cognitive Neuroscience University of Utah
2016	Guest Lecturer: Friendships Dr. Cecilia Wainryb	Childhood & Adolescent Development University of Utah
2014	Graduate Teaching Assistant Dr. Jennifer Ablow	Seminar on Attachment University of Oregon

HONORS/AWARDS

2018-2019	Graduate Research Fellowship, University of Utah Graduate School
2017	Dissertation Funding Award, Society for Research in Child Development (SRCD)
2017	Research Commendation, University of Utah Dept. of Psychology
2016	Graduate Research Award, Consortium for Families & Health Research (CFAHR)
2016	Clayton Award for Excellence in Graduate Research
2016	Clayton Summer Research Assistantship, University of Utah Dept. of Psychology
2013	Departmental Honors, University of Oregon Dept. of Psychology

MENTORSHIP

2019-2020 Supervised undergraduate independent research project

"Maternal mindfulness during pregnancy predicts newborn neurobehavior."

Kristen Olavson University of Utah

2014-2015 Supervised psychology honors student

"Association between early life adversity and inflammation during infancy."

Jason David

University of Oregon

AD HOC REVIEWER

Biological Psychiatry

Biological Psychology

Child Development

Clinical Epigenetics

Developmental Cognitive Neuroscience

Developmental Psychobiology

Developmental Psychology

Early Human Development

Infant Behavior and Development

Journal of Abnormal Child Psychology

Journal of Clinical Child & Adolescent Psychology

Journal of Traumatic Stress

Psychoneuroendocrinology

Stress

RESEARCH INTERESTS

Neural oscillations and aperiodic activity

Newborn neurobehavior

Temperament

Developmental origins of health and disease (DOHaD)

Perinatal maternal mental health

SPECIALIZED TRAININGS

2018	Epigenetics Bootcamp
	Columbia University; Instructor: Andrea Baccarelli, Ph.D.
2016	Electroencephalography (EEG) with Infants and Young Children Virginia Tech; Instructor: Martha Ann Bell, Ph.D.
2016	Advanced Psychophysiological Methods Seminar University of Utah; Instructor: Sheila Crowell, Ph.D.
2016	Perinatal Mood and Anxiety Disorder Seminar Intermountain Healthcare; Instructor: Amy-Rose White, LCSW
2015	NICU Network Neurobehavioral Exam University of Utah Medical Center; Instructor: Lynne Andreozzi, Ph.D.
2015	UCLA Life Stress Interview University of Utah; Instructor: Constance Hammen, Ph.D.