Rebecca J. Brooker

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**Professional Positions**

9/2024 - present Professor Texas A&M University

Department of Psychological and Brain Sciences

5/2019 – present Courtesy Appointment Texas A&M University

Department of Educational Psychology

8/2013 – present Honorary Fellow University of Wisconsin - Madison

Department of Psychology

9/2019 – 8/2024 Associate Professor Texas A&M University

Department of Psychological and Brain Sciences

9/2021 – 8/2022 Associate Head Texas A&M University

Department of Psychological and Brain Sciences

8/2017 – 8/2019 Assistant Professor Texas A&M University

Department of Psychological and Brain Sciences

8/2013 – 7/2017 Assistant Professor Montana State University

Department of Psychology

4/2013 - 8/2013 Research Scientist University of Wisconsin – Madison

Department of Psychology

8/2011 - 4/2013 Postdoctoral Fellow University of Wisconsin – Madison

Department of Psychology

**Education**

2008-2011 Ph.D. Psychology (Developmental) The Pennsylvania State University 2006-2008 M.S. Psychology (Developmental) The Pennsylvania State University 2005-2006 No Degree Psychology (Developmental) University of Missouri-Columbia 2003-2005 No Degree Counseling Psychology Drake University

1999-2003 B.A. Psychology Central College

**Papers and Publications**

‡Denotes graduate student/trainee author

\*Denotes undergraduate student/trainee author

peer-reviewed manuscripts

1. \*Jennings, K.E., \*Piper, M.E., ‡Kling, J.L., \*Bruner, A., & **Brooker, R.J.** (*in press*). Maternal symptoms of prenatal depression predict context inappropriate negative emotion in infants. [senior author]. *Emotion.*
2. ‡Peoples, S.G., Davis, E.L., & **Brooker, R.J.** [senior author] (*in press*). Variation in coupling across neural and cardiac systems of regulation is linked to markers of anxiety risk in preschool. *Development & Psychopathology.* doi: 10.1017/S0954579424000609 NIHMSID: NIHMS1987667
3. ‡Kling, J.L. & **Brooker, R.J.** (2024). Socioeconomic status moderates neural markers of cognitive reappraisal across preschool. *Biological Psychology, 186*, 108738doi: 10.1016/j.biopsycho.2023.108738 *.* NIHMSID: NIHMS198766
4. ‡Mistry-Patel, S. & **Brooker, R.J.** (2023). Socioeconomic status as a moderator of neural and parental pathways to anxiety risk in early childhood. *Developmental Psychology, 59*(5), 801-812. doi:10.1037/dev0001461 NIHMSID: NIHMS1828016
5. **Brooker, R.J.**, ‡Mistry, S., Kiel, E.J., Liu, S., VanLieshout, R.J., Schmidt, L.A., & John-Henderson, N. (2023). Infant negative reactivity modulates trajectories of maternal mental health symptoms during the pre- to postpartum period. *Journal of Affective Disorders Reports, 11,* 100481. doi:10.1016/j.jadr.2023.100481 NIHMSID: NIHMS1864809.
6. ‡Kling, J.L., ‡Mistry-Patel, S., ‡Peoples, S.G., Caldera, D.R., & **Brooker, R.J**. (2023) Prenatal maternal depression predicts neural maturation and negative emotion and emotion in infants. *Infant Behavior and Development, 70*, 101802*.* [senior author] doi: 10.1016/j.infbeh.2022.101802 NIHMSID: NIHMS1828016
7. Rutherford, H.J.V., Yatziv, T., Vess, M., & **Brooker, R.J.** [senior author]. (2023). Envisioning motherhood: Mental-state language in caregiving narratives across the perinatal period. *Infant Mental Health Journal, 44*,2 18-227*.*doi: 10.1002/imhj.22048 NIHMSID: NIHMS1932551
8. Penner, F., Bunderson, M., Bartz, C., **Brooker, R.J.**, & Rutherford, H.J.V. (2022). Emotion regulation strategies and perceived stress during pregnancy in expectant mothers and fathers. *Journal of Reproductive and Infant Psychology.* Advanced online publication. doi: 10.1080/02646838.2022.2110224 NIHMSID: MIHMS1830762.
9. Ettekal, I., Li, H., Chaudhary, A., Luo, W., & **Brooker, R.J.** (2022). Chronic and desisting peer victimization trajectories and the development of problem behaviors and inhibitory control in middle childhood. *Development and Psychopathology.*, 1-19. doi: 10.1017/S0954579422000426
10. ‡Nyman, T., Stichter, M., Rivera, G.N., ‡Maffly-Kipp, J., **Brooker, R.J.**, & Vess, M. (2022). Genetic causal beliefs and developmental context: Parents’ beliefs predict psychologically controlling approaches to parenting. *Journal of Social and Personal Relationships, 39*, 3487-3505. doi: 10.1177/02654075221099188.
11. **Brooker, R.J.**, ‡Mistry-Patel, S., ‡Kling, J.L., & \*Howe, H.A. (2021). Deriving within-person estimates of delta-beta coupling: A novel measure for identifying individual differences in emotion and neural function in childhood. *Developmental Psychobiology, 63*(6), e22172. PMCID: PMC8693731
12. Mathur, V.A., ‡Nyman, T, ‡Nanavaty, N., \*George, N., & **Brooker, R.J.** (2021). Trajectories of pain during pregnancy predict symptoms of postpartum depression. *Pain Reports, 6*, e933. [senior author] PMCID: PMC8177876
13. \*Hammond, M., **Brooker, R.J.,** ‡Mistry-Patel, S., Schlegel, R.J., Vess, M., Wines, M., & Havens, J. (2021). Feelings of parental authenticity moderate concurrent links between breastfeeding experience and symptoms of postpartum depression. *Frontiers in Global Women’s Health, 2*, 651244. PMCID: PMC8340944
14. Kiel, E.J., ‡Phelps, R.A., & **Brooker, R.J.** (2021). Maternal dynamic respiratory sinus arrhythmia during toddlers’ interactions with novelty. *Infancy, 26,* 388-408. PMCID: PMC8208503
15. ‡Rivera, G.N., Vess, M., **Brooker, R.J.**, Stichter, M., & Neiderhiser, J.M. (2021). Exploring relations between beliefs about the genetic etiology of virtue and the endorsement of parenting practices. *Parenting: Science and Practice, 21*(2), 79-107.
16. Nyman, T., ‡Pegg, S., Kiel, E.J., ‡Mistry, S., \*Schmall, L.J., & **Brooker, R.J.** (2020). Perceived social support moderates neural reactivity to emotionally valanced stimuli during pregnancy. *Psychophysiology, 57*, e13647. [senior author] PMCID: PMC7722094
17. ‡Clark, D.A., Donnellan, M.B., Durbin, C.E., **Brooker, R.J.**, Neppl, T.K., Gunnar, M., Carlson, S.M., LeMare, L., Kochanska, G., Fisher, P.A., Leve, L.D., Rothbart, M.K., & Putnam, S.P. (2020). Using item response theory to evaluate the Children’s Behavior Questionnaire: Considerations of general functioning and assessment length. *Psychological Assessment, 32*(10), 928-942. PMCID: PMC8497017
18. Davis, E.L., **Brooker, R.J**., & Kahle, S. (2020). Considering context in developmental psychobiology of self-regulation. *Developmental Psychobiology, 62*, 423-435.
19. **Brooker, R.J.,** Kiel, E.J., MacNamara, A., ‡Nyman, T., John-Henderson, N., Schmidt, L.A., & VanLieshout, R.A. (2020). Maternal neural reactivity during pregnancy predicts infant temperament. *Infancy, 15*, 46-66. PMCID: PMC316194
20. **Brooker, R.J.**, Moore, M.N., Van Hulle, C.A., Beekman, C.R., ‡Begnoche, J.P., Lemery-Chalfant, K., & Goldsmith, H.H. (2020). Attentional control explains covariation between symptoms of ADHD and anxiety during adolescence. *Journal of Research on Adolescence, 30*, 126-141. PMCID: PMC6858492
21. **Brooker, R.J.**, Bates, J.E., Buss, K.A., ‡Canen, M.J., Dennis-Tiwary, T.A., Gatzke-Kopp, L., Hoyniak, C., Klein, D., Kujawa, A., Lahat, A., Lamm, C., Moser, J.S., Peterson, I.T., Tang, A., Woltering, S., & Schmidt, L.A. (2019). Conducting event related potential (ERP) research with young children: A review of components, special considerations and recommendations for research on cognition and emotion. *Journal of Psychophysiology*, *34*, 137-158. *PMCID*: PMC8136588
22. Schmidt, N.L., **Brooker, R.J.**, Carroll, I.C., Gagne, J.R., Luo, Z., Moore, M.N., Planalp, E.M., Sarkisian, K., Schmidt, C.K., Van Hulle, C.A., Lemery-Chalfant, K., & Goldsmith, H.H. (2019). Longitudinal research at the interface of affective neuroscience, developmental psychopathology, and behavioral genetics: Findings from the Wisconsin Twin Project. *Twin Research and Human Genetics, 22*, 233-239. PMCID: PMC6750215.
23. Vess, M., **Brooker, R.J.**, Stichter, M., Neiderhiser, J.M. (2019). Genes and virtue: Exploring how heritability beliefs shape conceptions of virtue and its development. *Behavior Genetics, 49*, 168-174.
24. Vess, M., **Brooker, R.J.,** Schlegel, R.J., & Hicks, J.A. (2019). Daily mental lapses and the subjective experience of true self alienation. *Journal of Research in Personality, 78*, 148-152.
25. **Brooker, R.J.** (2018). Parenting and socioeconomic status predict developmental changes in error-related negativity in young children. *Child Development, 89*(3), 725-733. PMCID: PMC5948123.
26. Van Hulle, C.A., Moore, M.N., Lemery-Chalfant, K., Goldsmith, H.H., & **Brooker, R.J.** (2017). Infant stranger fear trajectories predict diurnal cortisol rhythm and anxious behaviors during childhood. *Development and Psychopathology, 29*(3), 1119-1130. PMCID: PMC5509479.
27. **Brooker, R.J.**, ‡Canen, M.J., Davidson, R.J., & Goldsmith, H.H. (2017). Short- and long-term stability of alpha asymmetry: Baseline and affective measures. *Psychophysiology, 54*, 1100-1109. PMCID: PMC5507748.
28. ‡Canen, M.J. & **Brooker, R.J.** (2017). ERN, theta power, and risk for anxiety problems in preschoolers. *Biological Psychology, 123*, 103-110. PMCID: PMC5292075.
29. ‡Najjar, R. & **Brooker, R.J.** (2017). Delta beta coupling is associated with paternal caregiving behaviors during preschool. *International Journal of Psychophysiology, 112*, 31-39. PMCID: PMC5243183.
30. **Brooker, R.J.**, Alto, K.M., Marceau, K., ‡Najjar, R., Leve, L.D., Ganiban, J.M., Reiss, D., Shaw, D.S., & Neiderhiser, J.M. (2016). Early inherited risk for anxiety moderates the association between fathers' child-centered parenting and early social inhibition. *Journal of Developmental Origins of Health and Disease, 7,* 602-615. PMCID: PMC5102788.
31. **Brooker, R.J.,** Kiel, E.J., & Buss, K.A. (2016). Early social fear predicts kindergarteners’ socially anxious behaviors: Direct associations, moderation by inhibitory control, and differences from nonsocial fear. *Emotion, 16*(7), 991-1010. PMCID: PMC27213729.
32. ‡Begnoche, J.P., **Brooker, R.J.**, & Vess, M. (2016). EEG asymmetry and ERN: Temperament outcomes in children. *PLoS ONE, 11*(5), e0155713. PMCID: PMC4880182
33. **Brooker, R.J.**, \*Phelps, R.A., Davidson, R.J., & Goldsmith, H.H. (2016). Context differences in delta-beta coupling are associated with neuroendocrine reactivity in infants. *Developmental Psychobiology, 58*(3), 406-418. PMCID: PMC4801734.
34. **Brooker, R.J.**, Davidson, R.J., & Goldsmith, H.H. (2016). Maternal negative affect in infancy is linked to disrupted patterns of change in cortisol and alpha asymmetry across contexts during childhood. *Journal of Experimental Child Psychology, 142*, 274-290. PMCID: PMC4666756.
35. \*Phelps, R.A., **Brooker, R.J.**, & Buss, K.A. (2016). Toddlers’ dysregulated fear predicts delta-beta coupling during preschool. *Developmental Cognitive Neuroscience,17*, 28-34. PMCID: PMC4727986.
36. **Brooker, R.J.**, Neiderhiser, J.M., Leve, L.D., Shaw, D.S., Scaramella, L., & Reiss, D. (2015). Associations between infant negative affect and parent anxiety symptoms are bidirectional: Evidence from mothers and fathers. *Frontiers in Psychology, 6*, 1875. PMCID: PMC4667033
37. **Brooker, R.J**., & Buss, K.A. (2014). Toddler fearfulness is linked to individual differences in error-related negativity during preschool. *Developmental Neuropsychology, 39*(1), 1-8. PMCID: PMC3889174.
38. **Brooker, R.J.**, & Buss, K.A. (2014). Harsh parenting and fearfulness in toddlerhood interact to predict amplitudes of preschool error-related negativity. *Developmental Cognitive Neuroscience, 9*, 148-159. PMCID: PMC4061243.
39. **Brooker, R.J.**, Buss, K.A., Lemery-Chalfant, K., Aksan, N., Davidson, R.J., & Goldsmith, H.H. (2014). Profiles of observed infant anger predict preschool behavior problems: Moderation by life stress. *Developmental Psychology, 50*(10), 2343-2352. PMCID: PMC4172515.
40. **Brooker, R.J.**, Neiderhiser, J.M., Ganiban, J.M., Leve, L.D., Shaw, D.S., & Reiss, D. (2014). Birth and adoptive parent anxiety symptoms moderate the link between infant attention control and internalizing problems in toddlerhood. *Development and* *Psychopathology*, *26,* 347-359*.* PMCID: PMC3981904.
41. **Brooker, R.J.**, Buss, K.A., Lemery-Chalfant, K., Aksan, N., Davidson, R.J., & Goldsmith, H.H. (2013). The development of stranger fear in infancy and toddlerhood: Normative development, individual differences, antecedents, and outcomes. *Developmental Science, 16(*6), 864-878. PMCID: PMC4129944.
42. Buss, K.A., Davis, E.L., Kiel, E.J., **Brooker, R.J.**, Beekman, C.R., & Early, M.C. (2013). Dysregulated fear predicts social wariness and social anxiety symptoms during kindergarten. *Journal of Clinical Child and Adolescent Psychology, 42*(5), 603-616. PMCID: PMC3675171.
43. Schmidt, N.L., Van Hulle, C., **Brooker, R.J.**, Meyer, L.R., Lemery-Chalfant, K., & Goldsmith, H.H. (2013). Wisconsin twin research: Early development, childhood psychopathology, autism, and sensory over-responsivity. *Twin Research and Human Genetics, 16*(Special Issue 1), 376-384. PMCID: PMC3570675.
44. **Brooker, R.J.**, Berenbaum, S.A., Bricker, J., Corley, R.P., & Wadsworth, S.A. (2012). Pubertal timing as a potential mediator of adoption effects on problem behaviors. *Journal of Research on Adolescence, 22*(4), 739-745. PMCID: PMC3547396.
45. **Brooker, R.J.**, Buss, K.A., & Dennis, T.A. (2011). Error-monitoring brain activity is associated with affective behaviors in young children. *Developmental Cognitive Neuroscience, 1*, 141-152. PMCID: PMC3092557.
46. **Brooker, R.J.,** Neiderhiser, J.M., Kiel, E.J., Leve, L.D., Shaw, D.S., & Reiss, D. (2011). The association between infants’ attention control and social inhibition is moderated by genetic and environmental risk for anxiety. *Infancy, 16*, 490-507. PMCID: PMC3158002.
47. Buss, K.A., Dennis, T.A., **Brooker, R.J.**, & Sippel, L.M. (2011). An ERP study of conflict monitoring in 4- to 8-year-old children: Associations with temperament. *Developmental Cognitive Neuroscience, 1*, 131-140. PMCID: PMC3111917.
48. **Brooker, R.J.**, & Buss, K.A. (2010). Dynamic measures of RSA predict distress and regulation in toddlers. *Developmental Psychobiology, 52*, 372-382. PMCID: PMC2858777.
49. Buss, K.A., **Brooker, R.J.**, & Leuty, M. (2008). Girls most of the time, boys some of the time: Gender differences in toddlers’ use of maternal proximity and comfort seeking. Infancy, 13, 1-29. PMCID: Policy Exempt – Accepted for publication prior to 4/7/08.

manuscripts under review

\*Burkey, R.C., \*Ramirez, P.J., \*Walker, A.L., \*Akbaryan, A., Choi, J., ‡Mistry-Patel, S., ‡Kling, J.L, & **Brooker, R.J**. (*Under Review*). The N2 during preschool: Temporal stability a test of bidirectional effects with maternal emotion. *Child Development.*

‡Mistry-Patel, S., ‡Nyman-Mallis, T., Dollar, J.M., Gagne, J.R., & **Brooker, R.J.** [senior author]. (*Invited Revision*). Cognitive control moderates associations between domains of temperamental reactivity and preschoolers’ social behaviors. *Developmental Psychobiology.*

Penner, F., Rutherford, H.J.V., **Brooker, R.J.** [senior author] (*Under review*). Perceived stress and emotion regulation: Markers of affective vulnerability in the perinatal period. *Cognition and Emotion*.

manuscripts under revision

Beekman, C., Neiderhiser, J.M., **Brooker, R.J.**, Loken, E., Buss, K.A., Moore, G.A., Leve, L.D., Shaw, D.S., Ganiban, J.M., & Reiss, D. A single genetic liability for psychopathology? A stringent test of parent-to-child transmission in an adoption sample.

**Brooker, R.J.**, Vess, M., ‡Rivera, G.N, Stichter, M., & Neiderhiser, J.M. Maternal beliefs about heritability and perceptions about children's antisocial behaviors predict parental control and child depression: Moderation by SES*.*

Choi, J., ‡Kling, J., Kiel, E.J., VanLieshout, R.J., & Schmidt, L.A., & **Brooker, R.J**. State and trait maternal late positive potential during pregnancy as predictors of infant negativity at age 4 months. [senior author]

‡Nyman-Mallis, T., Heffer, R.W., & **Brooker, R.J.** [senior author] (*Under revision*). Maternal social phobia, but not generalized anxiety, symptoms interact with early childhood error-related negativity to prospectively predict child anxiety symptoms. *British Journal of Developmental Psychology.*

‡Peoples, S.G., **Brooker, R.J.,** Rivera, G.N., ‡Nyman, T., Stichter, M., Neiderhiser, J.M., & Vess, M. Authoritarian parenting does not promote virtuous adolescent behaviors.

manuscripts in preparation

‡Mistry-Patel, S., ‡Peoples, S.G., & **Brooker, R.J.** Perinatal neuroplasticity: Linking error-related negativity,

maternal depression, and infant temperament

\*Piper, M.E., ‡Peoples, S.G., Kiel, E.J., & **Brooker, R.J.** [senior author]. Preschool temperamental fear moderates the link between changes in maternal intrusiveness and risk for anxiety.

**Conference Presentations and Invited Talks**

papers

Brooker, R.J., & Mistry-Patel, S. (2024). *Contextual influences on change in the error-related negativity during pregnancy.* Paper presented at the Winter Conference on Neural Plasticity; Puerto Vallarta, Mexico.

Brooker, R.J., & Peoples, S.G. (2023). *The role of cross-systemic coherence in children’s early temperamental vulnerability to psychopathology*. Paper presented at the 2023 meeting of the Occasional Temperament Conference; Orford, Québec, Canada.

Brooker, R.J., & Mistry-Patel, S. (2023). *Perinatal ERN stability predicts infant temperament outcomes: The role of maternal depression for development*. Paper presented at the 2023 meeting of the Occasional Temperament Conference; Orford, Québec, Canada.

Brooker, R.J., & Kiel, E.J. (2023). *Infant late positive potential is associated with maternal emotion characteristics.* Paper presented at the annual meeting of the Fetal, Infant, & Toddler Neuroimaging Group; Santa Rosa, CA.

Bernard, J.A., & Brooker, R.J., (2023). *Parents develop Too: Maternal and paternal neural reorganization across the perinatal period*. Co-chaired symposium at the biennial meeting of the Society for Research in Child Development; Salt Lake City, Utah.

Brooker, R.J., ‡Kling, J.L., & ‡Mistry-Patel, S. (2022). *Self-regulation in preschool and risk for anxiety problems.* Paper presented at the annual meeting of the Anxiety Disorders Association of America; Denver, CO.

‡Nyman, T., \*Blumenthal, M., & Brooker, R.J. (2021). *Time lag moderates the effect of parental control on adolescent anxiety*. Paper presented at the biennial meeting of the Society for Research on Adolescence; New Orleans, LA.

Brooker, R.J., ‡Kling, J., ‡Mistry-Patel, S., & ‡Nyman, T. (2020). *I know you are but what am I? Using neuroscience to understand maternal contributions to childhood temperament.* Paper presented at the 23rd meeting of the Occasional Temperament Society; Conference moved to online format.

Brooker, R.J., & ‡Nyman, T. (2019). *The other side of the dyad: The early parent-child relationship and developmental antecedents of shyness.* Paper presented at the biennial meeting of the Society for Research in Child Development; Baltimore, MD.

Brooker, R.J. & ‡Mistry, S. (2019). *Child characteristics modulate trajectories of pre-to postpartum maternal anxiety.* Paper presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.

Brooker, R.J. (2017). *ERN as a moderator of the link between parenting and anxiety risk: A conditional process.* Paper presented at the biennial meeting of the Society for Research in Child Development; Austin, TX.

Brooker, R.J., & ‡Canen, M.J. (2016). *The ERN as a predictor of early fear: The role of context.* Paper presented at the annual meeting of the Association for Psychological Science; Chicago, IL.

Buss, K.A., Morales, S., & Brooker, R.J. (2016). *Vigilance and avoidance in children with dysregulated fear.* Paper presented at the annual meeting of the International Society for Developmental Psychobiology; San Diego, CA.

\*Phelps, R.A., Brooker, R.J., & Buss, K.A. (2016). *Delta-beta coupling is associated with contextual threat levels in children*. Paper presented at the annual meeting of the Midwestern Psychological Association; Chicago, IL.

Brooker, R.J. (2015). *Characterizing the preschool ERN and its associations with temperament*. Paper presented at the annual meeting of the Association for Psychological Science; New York City, NY. (Symposium Chair)

Buss, K.A., Morales, S., Davis, E.L., Brooker, R.J., Philbrook, L., & Fu, X. (2015). *Biomarkers of dysregulated fear processes*. Paper presented at the Anxiety and Depression Association of America meeting; Miami, FL.

Brooker, R.J., \*Phelps, R.A., \*Howe, H.A., Buss, K.A., Davidson, R.J., & Goldsmith, H.H. (2015). *Context-based differences in delta-beta coupling and anxiety risk in infancy and toddlerhood.* Paper presented at the biennial meeting of the Society for Research in Child Development; Philadelphia, PA.

Brooker, R.J., Buss, K.A., Davidson, R.J., & Goldsmith, H.H. (2015). *Convergence of neural and neuroendocrine measures of risk for anxiety problems in infancy and early childhood.* Paper presented at the biennial meeting of the Society for Research in Child Development; Philadelphia, PA.

Brooker, R.J., Davidson, R.J., & Goldsmith, H.H. (2014). *Context-based differences in delta-beta coupling and neuroendocrine reactivity in infants*. Paper presented at the annual meeting of the Society for Psychophysiological Research; Atlanta, GA.

Brooker, R.J., Davidson, R.J., & Goldsmith, H.H. (2014). *Maternal negative affect during infancy predicts disrupted patterns of biological regulation during childhood*. Paper presented at the biennial meeting of the International Congress on Infant Studies; Berlin, Germany.

Moore, M. N., Brooker, R.J., & Goldsmith, H. H. (2014) *Parsing fear and inhibition in social and non-social contexts.* Paper presented at the annual meeting of the Midwestern Psychological Association; Chicago, IL.

Brooker, R.J., Buss, K.A., Lemery, K., Aksan, N., Davidson, R.J., & Goldsmith, H.H. (2013). *Heterogeneity in early development predicts individual differences in behavior problems*. Paper presented at the annual meeting of the Midwestern Psychological Association; Chicago, IL.

Brooker, R.J., & Buss, K.A. (2013). *Parenting moderates the link between fearfulness and an early ERP marker of anxiety risk.* Paper presented at the biennial meeting of the Society for Research in Child Development; Seattle, WA. (Symposium Co-Chair).

Brooker, R.J., Neiderhiser, J.M., Ganiban, J.M., Leve, L.D., Shaw, D.S., & Reiss, D. (2012). *Difficult temperament in infancy evokes changes in parent anxiety symptoms over time*. Paper presented at the biennial meeting of the International Congress on Infant Studies; Minneapolis, MN. (Symposium Co-chair).

Brooker, R.J., Neiderhiser, J.M., Ganiban, J.M., Leve, L.D., Shaw, D.S., & Reiss, D. (2011). *Attention control modulates genetic and environmental risk for poor socioemotional adjustment*. Paper Presented at the annual meeting of the Behavior Genetics Association; Newport, RI. (Symposium Co-chair).

Buss, K.A., Brooker, R.J., & Dennis, T.A. (2010) *Fearful behavior links and age differences in ERP biomarkers for conflict and performance monitoring in young children*. Paper presented at annual meeting of the Association for Psychological Science; Boston, MA.

Brooker, R.J., & Buss, K.A. (2010). *Contributions of inhibitory control to trajectories of fear between 24 and 60 months*. Paper presented at the biennial meeting of the International Congress on Infant Studies; Baltimore, MD. (Symposium Co-chair)

Buss, K.A., Dribin, A.E., Brooker, R.J., Interrante, J., & Dennis, T.A. (2008). *Using RSA and ERP to measure regulatory processes in fearful toddlers and young children*. Paper presented at the annual meeting of the Society for Psychophysiological Research Annual Conference; Austin, TX.

posters

‡Peoples, S.G., & Brooker, R.J. (2023). *Associations between the late positive potential and effective emotion regulation strategy use in 4-year-old children.* Poster presented at the 56th annual meeting of the International Society for Developmental Psychobiology; Utrecht, The Netherlands.

‡Kling, J.L. & Brooker, R.J. (2023). *Socioeconomic status moderates neural markers of cognitive reappraisal across preschool*. Poster presented at the biennial meeting of the Society for Research in Child Development; Salt Lake City, UT.

‡Mistry-Patel, S. & Brooker, R.J. (2023). *Linking prenatal error-related negativity to infant outcomes: Moderation by depression*. Poster presented at the biennial meeting of the Society for Research in Child Development; Salt Lake City, UT.

‡Peoples, S., & Brooker, R.J. (2023). *Temperamental fear moderates systemic coherence between ERN and RSA: Characterizing anxiety risk in preschoolers*. Poster presented at the biennial meeting of the Society for Research in Child Development; Salt Lake City, UT.

‡Kling, J.L., Mistry-Patel, S., Peoples, S.G., Caldera, D.R., & Brooker, R.J. (2022). *Prenatal maternal depression predicts brain maturation in infants*. Poster presented at the meeting of the Parental Brain Conference; St. Malo, France.

‡Mistry-Patel, S., Peoples, S.G., & Brooker, R.J. (2022). *Maternal depression moderates error-related negativity across pregnancy and postpartum*. Poster presented at the meeting of the Parental Brain Conference; St. Malo, France.

‡Peoples, S.G., & Brooker, R.J. (2022). *Context-inappropriate fear moderates the association between ERN and RSA: Implications for childhood anxiety.* Poster presented at the 55th annual meeting of the International Society for Developmental Psychobiology; San Diego, California.

‡Peoples, S.G., & Brooker, R.J. (2022). *Paternal social anxiety moderates the association between parasympathetic regulation at ages 3 and 5 among male preschoolers.*  Poster presented at the annual meeting of the Society for Psychophysiological Research; Vancouver, British Columbia, Canada.

‡Chaudhary, A., Li, H., Ettekal, I., Brooker, R.J., & Lo, W. (2021). *Peer victimization trajectories and longitudinal associations with children’s externalizing and internalizing problems and inhibitory control*. Poster presented at the biennial meeting of the Society for Research in Child Development; Conference moved to online format.

‡Mistry, S., Dollar, J.M., Gagne, J.R., & Brooker, R.J. (2020). *Isolated measures of emotion state predict aggression and proscociality: Moderation by N2.* Poster presented at the 23rd meeting of the Occasional Temperament Society; Conference moved to online format.

‡Kling, J.L., Kujawa, A., MacNamara, A., & Brooker, R.J. (2020). *Validation of a laboratory measure of infant emotional reactivity at the neural level.* Poster presented at the 23rd meeting of the Occasional Temperament Society; Conference moved to online format.

‡Kling, J.L., Kiel, E.J. Schmidt, LA., Van Lieshout, R.J., & Brooker, R.J. (2020). *Maternal late positive potential as a state, but not trait, marker predicts infant temperament.* Poster presented at the biennial meeting of the International Congress on Infant Studies; Conference moved to online format.

‡Kling, J.L., Kujawa, A., MacNamara, A., Bauer, E., & Brooker, R.J. (2020). *Validation of a laboratory measure of infant emotional reactivity at the neural level*. Poster presented at the biennial meeting of the International Congress on Infant Studies; Conference moved to online format.

\*Mistry, S., & Brooker, R.J. (2019). *Infant emotional reactivity moderates pre- to postpartum symptoms of anxiety and depression in mothers.* Poster presented at the biennial meeting of the Society for Research in Child Development; Baltimore, MD.

\*Mistry, S., ‡Nyman, T., \*Schmall, L., Kiel, E.J., & Brooker, R.J. (2019). *Perceived social support modulates neural reactivity to negative stimuli during pregnancy*. Poster presented at the biennial meeting of the Society for Research in Child Development; Baltimore, MD.

‡Nyman, T., & Brooker, R.J. (2019). *Discrete parent symptoms uniquely predict a neural marker of child risk for anxiety problems.* Poster presented at the biennial meeting of the Society for Research in Child Development; Baltimore, MD.

‡Riviera, G.N., Brooker, R.J., Vess, M., Stichter, M., & Neiderhiser, J.M. (2019). *Beliefs about heritability relate to authoritarian parenting beliefs, parental control, and child depression.* Poster presented at the biennial meeting of the Society for Research in Child Development; Baltimore, MD.

‡Riviera, G.N., Vess, M., Brooker, R.J., Stichter, M., & Neiderhiser, J.M. (2018). *Beliefs about the heritability of virtue relate to judgments about what virtue is and what constitutes “good” parenting*. Poster presented at the annual meeting of the Rocky Mountain Psychological Association; Denver, CO.

\*Diehl, K., Davis, E.L., & Brooker, R.J. (2018) *LPP amplitude is associate with behavioral emotion regulation strategies in children.* Poster presented at the annual meeting of the Rocky Mountain Psychological Association; Denver, CO.

Locke, R., Lemery-Chalfant, K., Brooker, R., Davidson, R.J., & Goldsmith, H.H. (2017). *Physiological and behavioral outcomes associated with anger dysregulation.* Poster presented at the biennial meeting of the Society for Research in Child Development; Austin, TX.

Moore, M.N., Brooker, R.J., Van Hulle, C.A., Beekman, C., Lemery-Chalfant, K., & Goldsmith, H.H. (2017). *Shared genetic and environmental influences among attentional control, anxiety, and ADHD during adolescence.* Poster presented at the biennial meeting of the Society for Research in Child Development; Austin, TX.

‡Canen, M.J., & Brooker, R.J. (2016). *ERN and theta dynamics: Links with anxiety risk in preschoolers*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Minneapolis, MN.

‡Najjar, R.& Brooker, R.J. (2016). *Parenting is associated with delta-beta coupling in preschoolers*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Minneapolis, MN.

\*Schmall, L.J., Kiel, E.J., Brooker, R.J. (2016). *Stress-related changes in neural markers of regulation in pregnant women are buffered by social support.* Poster presented at the annual meeting of the Society for Psychophysiological Research; Minneapolis, MN.

‡Begnoche, J.P., Brooker, R.J., Vess, M., & Buss, K.A. (2015). *EEG asymmetry and ERN: Temperament outcomes in preschoolers*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Seattle, WA.

\*Phelps, R.A., ‡Canen, M.J., ‡Najjar, R. & Brooker, R.J. (2015). *Individual differences in delta-beta coupling are linked to early parenting*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Seattle, WA.

\*Phelps, R.A., ‡Howe, H.A., Brooker, R.J., & Buss, K.A. (2015). *Delta-beta coupling is associated with behavioral markers but not with neuroendocrine markers of anxiety risk*. Poster presented at the biennial meeting of the Society for Research in Child Development; Philadelphia, PA.

Brooker, R.J., Kiel, E.J., & Buss, K.A. (2014). *Social and nonsocial fear in late infancy is associated with childhood anxious behaviors: Moderation by infants’ inhibitory control.* Poster presented at the biennial meeting of the International Congress on Infant Studies; Berlin, Germany.

Fu, X., Brooker, R.J., Beekman, C., Leve, L.D., Natsuaki, M.N., Shaw, D.S., Reiss, D. & Neiderhiser, J.M. (2014). *Executive Function As a Protective Factor Against Anxiety Symptoms For Genetically At-risk Children: Evidence From a Longitudinal Adoption Study*. Poster presented at the Biennial Meeting of the International Society for the Study of Behavioural Development; Shanghai, China.

\*Phelps, R.A., Brooker, R.J., & Buss, K.A. (2014). *Delta-beta coupling is associated with contextual threat levels in children*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Atlanta, GA.

\*Hedberg, C.R., Brooker, R.J., & Goldsmith, H.H. (2013). *Gender differences in cardiac reactivity in response to social stress*. Poster presented at the annual Wisconsin Symposium on Emotion; Madison, WI.

Morales, S., Brooker, R.J., Perez-Edgar, K., Buss, K.A. (2013). *Differences in attention in fearful children: A comparison of dysregulated and normative fear-expression profiles*. Poster presented at the biennial meeting of the Society for Research in Child Development; Seattle, WA.

Moore, M.N., Brooker, R.J., & Goldsmith, H.H. (2013). *Associations between early stranger fear trajectories and social anxiety in middle childhood.* Poster presented at the biennial meeting of the Society for Research in Child Development; Seattle, WA.

Davey, K.M., Marceau, K., Brooker, R.J., Leve, L.D., Ganiban, J.M., Reiss, D., & Neiderhiser, J.M. (2012). *Genetic risk and sensitive parenting interact to predict behavioral inhibition.* Poster presented at the annual meeting of the Society for Prevention Research; Washington, D.C.

Brooker, R.J., & Buss, K.A. (2012). *The emergence of neural components of performance monitoring during childhood.* Poster presented at the biennial meeting of the International Congress on Infant Studies; Minneapolis, MN.

Morales, S., Brooker, R.J., Davis, E.L., & Buss, K.A. (2012). *Longitudinal associations between physiological indices of regulation*. Poster presented at the biennial meeting of the International Congress on Infant Studies; Minneapolis, MN.

Brooker, R.J., Buss, K.A., & ‡Parry, L.Q. (2011). *The emergence of neural components of performance monitoring during childhood*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Boston, MA.

Buss, K.A., Brooker, R.J., & ‡Eddinger, R.L. (2011). *EEG asymmetry, attention control, and self-regulation in early childhood*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Boston, MA.

Brooker, R.J., & Buss, K.A. (2011). *Is there evidence for early-developing error-related negativities in shy children?* Poster presented at the biennial meeting of the Society for Research in Child Development; Montreal, Quebec.

Brooker, R.J., Buss, K.A., & ‡Eddinger, R.E. (2010). *EEG Asymmetry, attention control, and risk for anxiety in early childhood*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Portland, OR.

Brooker, R.J., Buss, K.A., Stifter, C.A., & Blandon, A.Y. (2010). Individual differences in fear influence attention-based performance. Poster presented at the biennial meeting of the International Congress on Infant Studies; Baltimore, MD.

Brooker, R.J., Bricker, J., Corley, R., & Berenbaum, S.A. (2010). *Pubertal timing as a potential mediator of adoption effects on problem behaviors*. Poster presented at the biennial meeting of the Society for Research on Adolescence; Philadelphia, PA.

Brooker, R.J., Kiel, E.J., Bailey, L.E., & Buss, K.A. (2009). *The roles of attachment and emotion regulation in socioemotional adjustment*. Poster presented at the biennial meeting of the Society for Research in Child Development; Denver, CO.

Brooker, R.J., Hartz, K.A., Deweese, B.N., & Buss, K.A. (2008). *Dynamic measures of RSA, emotional distress, and regulation in toddlers*. Poster presented at the annual meeting of the Society for Psychophysiological Research; Austin, TX.

Brooker, R.J. & Berenbaum, S.A. (2008). *Longitudinal patterns of adjustment in females with congenital adrenal hyperplasia and associations with gendered characteristics*. Poster presented at the biennial Gender Development Research Conference; San Francisco, CA.

Brooker, R.J., Kiel., E.J., & Buss, K.A. (2008). *The interplay of distress, emotion regulation strategies, and attachment security*. Poster presented at the biennial meeting of the International Congress on Infant Studies; Vancouver, British Columbia.

Brooker, R.J. & Buss, K.A. (2007). *Evidence for differences in regulatory behaviors in toddlers.* Poster presented at the biennial meeting of the Society for Research in Child Development; Boston, MA.

Brooker, R.J. & Buss, K.A. (2006). *Gender differences in affective behaviors in toddlers*. Poster presented at the biennial meeting of the International Society on Infant Studies; Kyoto, Japan.

Brooker, R.J. (2004). *Effect of birth order rank on creative ability*. Poster presented at the annual meeting of the Midwestern Psychological Association; Chicago, IL.

invited presentations & workshops

Brooker, R.J. (2024). Considering context in the development of self-regulation. Colloquium talk presented at the Utah State University Department of Psychology. Logan, UT.

Brooker, R.J. (2024). New considerations of context in the development of mechanisms of self-regulation. Talk presented at the Western University Department of Psychology. London, Ontario, Canada.

Brooker, R.J. (2023) *Contextual influences on the error-related negativity.* Virtual meeting of the Fox Lab; University of Maryland.

Brooker, R.J. (2022) *Shy children in the classroom.* Meeting of the Brazos Valley Chapter of the Texas Association for the Education of Young Children. Bryan, TX.

Brooker, R.J. (2021). *Physiological tools for understanding developmental change in children and adults*. Invited address for the Presidential Symposium: *Understanding Psychophysiological Processes within a Developmental Science Framework* at the annual meeting of the Society for Psychophysiological Research; Conference moved to online format.

Brooker, R.J. (2017). *Familial transactions as predictors of mental health outcomes*. Neurobiological Lab for Learning and Development. College Station, TX.

Brooker, R.J. (2017). *Children, the early environment, and risk for anxiety problems*. Cross-college forum for mental health scholars. Bozeman, MT.

Brooker, R.J. (2015). *Finding neural markers of risk for mental illness in children and adults.* Montana Conference on Mental Illness. Billings, MT.

Brooker, R.J. (2015). *It’s all in the family: Mental health and transactions between parents and children in early life.* College of Nursing Colloquium Series. Bozeman, MT.

Brooker, R.J. (2014). C*ontext cues: Interactions between biology and the early environment predict behavior problems in young children*. Presented at the Developmental Brownbag of the University of California – Riverside Department of Psychology. Riverside, CA.

Brooker, R.J. (2013). *Contextual contributions to anxiety risk in young children*. Presented at the Psychology Brownbag at Montana State University. Bozeman, MT.

Brooker, R.J., & Goldsmith, H.H. (2012). *Pathways of emotional development in infancy*. Invited presentation at the meeting of the Conte Center Fellows. Madison, WI.

Brooker, R.J. (2011). *The association between performance monitoring and temperamental fearfulness in young children*. Presented at the Developmental Proseminar of the Penn State Psychology Department. University Park, PA.

Brooker, R.J., & Buss, K.A. (2010). *Cognitive control and performance-monitoring ERPs are linked to temperament characteristics in children*. Invited talk at the Social, Life, and Engineering Science Imaging Group Meeting. University Park, PA.

Brooker, R.J., & Buss, K.A. (2010). *Brain activity is associated with risk for anxiety in young children*. Invited poster presentation at the College of Liberal Arts Alumni Reception, Liberal Arts Today: From a Student View. University Park, PA.

Brooker, R.J., & Dribin, A.E. (2008). *Self-regulation in infants and toddlers*. Presented at Bennett Family Center Self-Regulation Workshop. University Park, PA.

Brooker, R.J. (2008). *Concepts and measures of self-regulation*. Presented at the Developmental Proseminar of the Penn State Psychology Department. University Park, PA.

Brooker, R.J. (2008). Evidence for converging systems of self-regulation. Presented at the Developmental Psychology Brownbag Seminar of the University of Missouri-Columbia. Columbia, MO.

Berenbaum, S.A. & Brooker, R.J. (2007). Early hormonal influences on psychological sex differences. Presented at the NIEHS Soy Estrogens and Development Meeting; Research Triangle Park, NC.

**Funding**

active grants and contracts

Texas A&M Social Science Collaboratory Total Costs: $10,000

Pilot Study of Functional and Structural Changes to the Maternal Brain During Pregnancy

Role: Co-Primary Investigator

November 2021 – August 2023

R01MH113669 Total Costs: $2,802,014 National Institute of Mental Health

Biological Systems as Mediators of Transactional Influences on Anxiety Risk in the Mother-Child Dyad During Infancy

Role: Co-Primary Investigator

August 2020 – May 2025

R01HD094830 Total Costs: $8,200,000

Eunice Kennedy Shriver National Institute of Child Health and Human Development

Play & learning across a year (PLAY)

Role: Consultant

August 2018 – May 2023

TAMU Liberal Arts Social Science Consortium Proof of Concept Grant Total Costs: $5,000 Using the Late Positive Potential to Measure Emotional Reactivity in Infants

Role: Primary Investigator

July 2018-Present

supervised student and trainee grants and fellowships

K23 MH131753 Total Costs: $937,735

Neurobehavioral markers of positive valence systems in mothers with depression and young offspring

Role: Co-Mentor

Awardee: Kaylin Hill

August 2023 – July 2028

applications under review

Mental Research Institute Total Costs: $ 25,000

Neural Pathways to Positive Family Development: Protective Effects of Estrogen on Mother-Infant Relationships

Role: Primary Investigator

National Institute for Child Health and Human Development Total Costs: $419,375

R21 HD115347: Infant arousal regulation through C-Tactile afferents in the context of maternal depression

Role: Co-Investigator

applications under revision

National Institute for Child Health and Human Development Total Costs: $419,375

R21 HD115347: The Role of Hormones in the Plasticity of the Maternal Brain

Role: Primary Investigator

National Institute on Alcohol Abuse and Alcoholism Total Costs: $453,678

R21 AA031130: Mom wine club: Drinking and parenting effects of maternal identity and ingroup alcohol use

Role: Primary Investigator

**Completed Funding**

grants and contracts

Texas A&M University College of Education and Human Development Catapult Total Costs: $10,000

COVID-19 Kids: Socio-emotional and Cognitive Development in response to a Global Pandemic

Role: Co-Investigator (PI: Dr. Jeffrey Gagne)

January 2021-June 2022

Texas A&M Triads for Transformation Total Costs: $33,914 Secondary and contextual influences on children's development: Insights from secondary data analysis

Role: Co-investigator (PI: Dr. Idean Ettekal)

January 2019 – December 2020

Victoria S. Levin Award for Early Career Success in Young Children’s Mental Health Research Total Costs: $25,000

Bidirectional effects on anxiety risk in mothers and infants

Role: Primary Investigator

January 2018 – June 2019

Texas A&M University College of Education and Human Development Catapult Total Costs: $29,331

A comprehensive investigation of early self-control development and school readiness

Role: Co-Investigator (PI: Dr. Jeffrey Gagne)

January 2018-June 2019

Montana State University College of Nursing Total Costs: $4,192

Bio-energy for stress relief: Future directions

Role: Co-Investigator (PI: Dr. Alice Running)

July 2017 – June 2018

The John Templeton Foundation: UVA Genetics and Human Agency Total Costs: $523,485 How do Perceptions About Heritability Influence Complex Child-Parent Interactions and Character Development?

Role: Co-Investigator (PI: Dr. Matthew Vess)

September 2016 – August 2019

P20 GM104417 Total Costs: $2,100,900

Center for Health Equity in Rural Montana

Role: Pilot Project Leader (Project total costs: $222,062)

PI: Dr. Alexandra Adams

September 2014-August 2017

K01 MH100240 Total Costs: $499,099 Convergent Markers of Risk for Psychopathology in Infants and Toddlers

Role: Primary Investigator

April 2013 – July 2017

State of Montana Commissioner of Higher Education Total Costs: $952,058 The Synergistic Improvement in the Diagnosis and Treatment of Mental Illness, Dementia, & Chronic Pain

Role: Primary Investigator, Project 1 (Project 1 costs: $329,058)

PI: Drs. Matt Byerly and Frances Lefcort

August 2015 – June 2017

fellowship awards

T32 MH018931

Training Program in Emotion Research

Role: Postdoctoral Fellow

August 2011 – March 2013

PI: Dr. Richard J. Davidson

R25 MH080794

Yearly Workshop in the Event-Related Potential Technique

Role: Trainee

July 2010

PI: Dr. Steven J. Luck

T32 MH070327

Training in Early Childhood Mental Health Research

Role: Predoctoral Fellow

August 2008 – August 2010

PI: Dr. Pamela Cole

supervised student and trainee grants and fellowships

Philanthropic Education Organization Scholar Award Total Costs: $20,000

Role: Research Mentor

Awardee: Tristin Nyman

August 2021-May 2022

Elizabeth Qualls Fellowship Total Costs: $3000

Role: Research Mentor

Awardee: Sejal Mistry

Summer 2021

TAMU Clinical Area Summer Research Award Total Costs: $6000 Role: Research Mentor

Awardee: Jenny Kling

Summer 2021

F31 MH124342 Total Costs: $35,554

Time lag as a moderator of parental control and SES on child anxiety outcomes

Role: Primary Mentor

Awardee: Tristin Nyman

August 2020 – July 2021

TAMU Clinical Area Summer Research Award Total Costs: $6000 Role: Research Mentor

Awardee: Tristin Nyman

Summer 2018

Montana State University Presidential Emerging Scholar Grant Total Costs: $3000

Role: Mentor

Awardee: Keegan Diehl

Summer 2017

Montana State University Undergraduate Scholars Program Research Award Total Costs: $900

Changes in Neural Markers in Pregnant Women Due to Stress

Role: Mentor

PI: Lisa Schmall

August 2015-December 2015

Montana State University Graduate Student Research Grant Total Costs: $475

Role: Mentor

Awardee: J. Patrick Begnoche (funding declined)

Fall 2015

Montana State University Presidential Emerging Scholar Grant Total Costs: $3000

Role: Mentor

Awardee: Lindsey Whitcomb

Summer 2015

Montana INBRE Undergraduate Research Award Total Costs: $1,800 Cognitive Control: Physical Responses of At-Risk Adults Due to High Allostatic Load Role: Mentor

PI: Holly Howe

September 2014 – May 2015

Montana State University Undergraduate Scholars Program Research Award Total Costs: $900 Composites of Neural Makers of Prediction of Risk for Anxiety Symptoms

Role: Mentor

PI: Randi A. Phelps

May 2014-August 2014

Montana INBRE Undergraduate Research Award Total Costs: $900 Cognitive Control: Physical Responses of At-Risk Adults Due to High Allostatic Load Role: Mentor

PI: Holly Howe

January 2014-May 2014

unfunded applications

Baptist Research Foundation Total Costs: $1,190,378

The Texas Maternal Brain Project: Neuroscience insights into maternal mental health and parenting

Role: Co-Primary Investigator

F31 HD110210 Total Costs: $123,625

Risk prediction using polyneural risk scores for child anxiety

Role: Primary Mentor

PI: Jenny Kling

F31 HD112186 Total Costs: $125,774

Maternal perceptions of smartphone support and mother-infant relationship

Role: Primary Mentor

PI: Sejal Mistry

Eunice Kennedy Shriver National Institute of Child Health and Human Development Total Costs: $2,393,487

R01HD: Self-control, behavioral inhibition and school readiness: A comprehensive investigation from preschool through elementary school transition

Role: Co-investigator

PI: Jeffrey Gagne

Texas A&M University X-Grants

Self-control, behavioral inhibition, school readiness, and academic adjustment: A comprehensive developmental investigation from preschool through adolescence

Total Amount: Letter of Intent, full budget not calculated

Role: Co-investigator

Eunice Kennedy Shriver National Institute of Child Health and Human Development

R03HD: Early self-control development, behavior problems, and school readiness: Integrating cognitive, emotional, and biological approaches

Role: Co-investigator

PI: Jeffrey Gagne

National Institute of Mental Health Total Costs: $275,000

R21MH117373: Effects of maternal treatment on early risk for anxiety problems: The role of biological systems

Role: Primary Investigator

Jacobs Foundation Total Costs: $157,000

Jacobs Early Career Research Fellowship

Role: Research Fellow

Purpose: Research

Montana Mental Health Trust Total Costs: $201,604

The Montana 10,000 Pilot: Biomarkers of responsiveness to treatment for depression and comorbid symptoms in at-risk college students

Role: Co-Primary Investigator

Co-PIs: Ryan Niehus, Edward Dratz

National Institute of Mental Health Total Costs: $143,916

F32 MH092995: The development of cognitive control and associated risk for internalizing problems in childhood

Role: Primary Investigator

**Teaching Experience**

instruction

Contemporary Issues in Science; The Environment (Module 3 lecturer), Texas A&M University

Experimental Design for the Behavioral Sciences, Texas A&M University

Advanced Seminar in Developmental Psychology, Texas A&M University

Psychology of Emotion, Texas A&M University, Texas A&M University

Developmental Psychology, Texas A&M University

Advanced Statistical Analysis, Montana State University

Temperament and Development, Montana State University

Introduction to Human Development and Family Studies, The Pennsylvania State University Elementary Statistics in Psychology, Penn State World Campus

Developmental Psychology, Penn State World Campus

General Psychology, Central College

undergraduate independent research supervision

Anahid Akharyan, Reese Burkey, Peter Ramirez, Ashley Walkner, URS Research/LAUNCH Project, TAMU (Fall 2020-2021)

Katherine Gray, Undergraduate Independent Research/LAUNCH Project, TAMU (Fall 2020-2021)

Nevita George, Undergraduate Independent Research Project, TAMU (Co-mentor: Fall 2019-2020) Mikayela Hammond, Undergraduate Independent Research Project, TAMU (Fall 2018-2019)

Coleen Trottier, McNair Scholars Program, Montana State University (Co-mentor: Summer 2015) Rebekah Lindsey, McNair Scholars Program, Montana State University (Spring 2015-Summer 2015) Tanner Lineberry, McNair Scholars Program, Montana State University (2014-2015)

Randi Phelps, Undergraduate Independent Study, Montana State University (Summer 2014)

Holly Howe, Undergraduate Independent Study, Montana State University (Spring 2014, Fall 2014) Chloe Hedberg, Senior Thesis, University of Wisconsin – Madison (2013-2014)

Lindsey Whitcomb, Undergraduate Independent Study, Montana State University (Fall 2013)

Chloe Hedberg, Undergraduate Independent Research Project, University of Wisconsin – Madison (2012) Rebecca Eddinger, Undergraduate Honors Thesis, The Pennsylvania State University (2009-2010)

John Interrante, Undergraduate Honors Thesis, The Pennsylvania State University (2008-2009)

additional undergraduate supervision

Undergraduate senior thesis consultation (N = 3)

Undergraduate research assistants (8-12 per academic semester; 5-6 per summer term)

graduate student supervision

Sarah Peoples, primary mentor, TAMU Department of Psychological and Brain Sciences (Ph.D.; Clinical Psychology) Jennifer Kling, primary mentor, TAMU Department of Psychological and Brain Sciences (Ph.D.; Clinical Psychology) Sejal Mistry, primary mentor, TAMU Department of Psychological and Brain Sciences (Ph.D.; Psychology)

Tristin Nyman, co-mentor, TAMU Department of Psychological and Brain Sciences (Ph.D.; Clinical Psychology)

J. Patrick Begnoche, primary mentor, MSU Department of Psychology (M.S.; Psychological Science)

Mara Canen, primary mentor, MSU Department of Psychology (M.S.; Psychological Science)

Reema Najjar, primary mentor, MSU Department of Psychology (M.S.; Psychological Science)

Katie Garrison, secondary mentor, MSU Department of Psychology (M.S.; Psychological Science)

Stephanie Leal, summer mentor, MSU Department of Psychology (M.S.; Psychological Science)

Russell Hoeldtke, summer mentor, MSU Department of Psychology (M.S.; Psychological Science)

graduate student honors and awards

Sejal Mistry, Journal of Neuroendocrinology Young Investigator Award (2022)

Sejal Mistry, NSF Graduate Research Fellowship Program Honorable mention (2021)

Sejal Mistry, TAMU Department of Psychological and Brain Science First Year Poster Award (2020) Jennifer Kling, TAMU Department of Psychological and Brain Science Travel Award (2020)

Sejal Mistry, TAMU Department of Psychological and Brain Science Travel Award (2020)

Sejal Mistry, SRCD Student Travel Award (2019)

guest lectures

Foundations in Maternal and Child Health, Texas A&M School of Public Health (Spring 2023, Spring 2024)

Overview of Neuroscience, Texas A&M University (Spring 2022)

Psi Chi/Psychology Club, Montana State University (Spring 2016)

Developmental Psychology, Montana State University (Fall 2015)

The Ethical Practice of Science, Montana State University (Spring 2015)

Introduction to Psychology (Honors), Montana State University (Spring 2015)

Introduction to Psychology (Honors), Montana State University (Spring 2014)

Developmental Psychology, Montana State University (Spring 2014)

Child Development, The Pennsylvania State University (Summer 2008)

Developmental Psychology (Honors), The Pennsylvania State University (Spring 2008)

**Honors and Awards**

•Association for Psychological Science Fellow (2024 – present)

•Outstanding Early Career Alumni Award, Penn State Department of Psychology (2022)

•Faculty/Staff Award for Excellence, MSU Alumni Association & Bozeman Chamber of Commerce (2017) •Association for Psychological Science Rising Star (2015)

•NIH Loan Repayment Program (2014-2017)

•BGA Student Travel Award, Behavior Genetics Association (2011)

•SRCD Student Travel Award, Society for Research in Child Development (2011)

•College of Liberal Arts Dissertation Support Award, Penn State College of the Liberal Arts (2009)

•Doctoral Dissertation Funding Award, Robert & Ruth Faris Child Psychology Fund (2009)

•Departmental Travel Award, The Pennsylvania State University (2006, 2007, 2008, 2009)

•Developmental Area Fellowship, University of Missouri – Columbia (2005-2006)

•Central College Distinguished Scholar Fellowship, Central College (1999-2003)

•Alpha Zeta Mu National Honor Society, Central College Chapter (2001-2003)

•Psi Chi Honor Society in Psychology, Central College Chapter (2001-2003)

**Professional Training/Activities**

training workshops

2023 FIT’NG Interactive Workshops in Developmental EEG

FIT’NG and Center for Mind and Brain

2-week series of online workshops on best practices in developmental EEG research

2021 Statistics in R

Statistical Horizons online workshop

Basic concepts surrounding the use of R for data analysis

2021 Multilevel Modeling: A second course

Statistical Horizons online workshop

Advanced Multilevel modeling in Mplus

2015 Institute for Measurement, Methodology, Analysis, and Public Policy

Texas Tech University; held in Grapevine, TX

Structural Equation Modeling in Mplus

2015 Diagnostic Interview Schedule for Children

University of Wisconsin – Madison; Madison, WI

Individualized training on the administration of the DISC-IV

2014 NIH Research Domain Criteria

Society for Psychophysiological Research; Atlanta, GA

1-day workshop on the goals and funding priorities of the NIHRDoC Project

2012 Doing Bayesian Data Analysis

University of Wisconsin – Madison; Madison, WI

Introduction to Bayesian theory and the conduct and interpretation of Bayesian analyses

2012 Center for Research Methods and Data Analysis Summer Institute in Statistics

University of Kansas; Lawrence, KS

Modern Missing Data Treatment & Designs

2010 ERP Boot Camp

University of California-Davis; Davis CA

Two-week instruction in theory and practice using ERPs in psychological research

2009 Mini ERP Boot Camp

Society for Psychophysiological Research; Austin, TX

2-day introduction to contemporary use of ERPs in psychological research

2008 Heart Rate Variability Science Training Seminar

Mindware Technologies, LTD; Columbus, OH

Three-day instruction in theory and practice using HRV in psychological research

2007 Play Observation Scale Training

University of Maryland; College Park, MD

Three-day instruction to become reliable in coding and scoring the Play Observation Scale

2007 Impedance Cardiography Seminar

Mindware Technologies, LTD; Columbus, OH

Three-day instruction in use of impedance measures in psychological research

2005 LabTAB Administration and Coding Training

University of Missouri; Columbia, MO

Training in the administration and coding (including reliability) of Preschool LabTAB

2005 MAX/AFFECT Emotion Coding System Training

University of Missouri; Columbia, MO

Training and reliability test using epoch-based and continuous scoring of affect and behaviors

2005 Berkeley Puppet Interview Training

University of Oregon; Eugene, OR

Training and reliability in administering and scoring the Berkeley Puppet Interview

**Service**

professional activities and affiliations

• Fetal, Infant, and Toddler Neuroimaging Group (FIT’NG)

* Society for Psychophysiological Research

• Society for Research in Child Development

• International Congress on Infant Studies

• American Psychological Association (Division 7)

• Midwestern Psychological Association

• Association for Psychological Science

• International Neuroethics Society

• Behavior Genetics Association

editorial team member

Child Development (Consulting Editor)

Developmental Psychology (Consulting Editor)

Emotion (Editorial Board)

Frontiers in Genetics (Editorial Board)

ad-hoc reviewer

• Adoption Quarterly

• Behavior Genetics

• Biological Psychiatry

• Biological Psychology

• Clinical Psychological Science

• Cognitive, Affective, and Behavioral Neuroscience

* Development & Psychopathology
* Developmental Cognitive Neuroscience

• Developmental Neuropsychology

• Developmental Psychobiology

• Early Education and Development

• Hormones and Behavior

• Infant Behavior and Development

• Infant and Child Development

• International J. of Developmental Neuroscience

• International J. of Psychophysiology

• J. of Child Psychology and Psychiatry

• J. of Experimental Child Psychology

• J .of Research on Adolescence

• J .of Research in Personality

• New Ideas in Psychology

• Parenting: Science and Practice

• Philosophical Transactions of the Royal Society B

• Psychoneuroendocrinology

• Psychophysiology

• Sex Roles

• Social Development

• Twin Research and Human Genetics

guest editor

*Developmental Psychobiology,* 2022. Special issue on Methods and Metrics for EEG/ERP Assessment of Emotion and Cognition in Yong Children EEG.

grant reviewing

• National Institutes of Health, Psychosocial Development, Risk, and Prevention Study Section. 2019-2025

• National Institutes of Health Special Emphasis Panel. 2021

* TAMU Presidential Clinical Research Partnership (PCRP) Grants – Full Proposal 2021

• National Institutes of Health, Child Psychology and Developmental Disabilities Study Section. 2019

• National Science Foundation Panelist. 2014, 2015, 2017, 2018, 2019, 2024.

• National Institutes of Health Early Career Reviewer. 2014 – 2020.

• State of Montana Youth Crisis Diversion Research Funding. 2014.

conference review panels

• International Congress on Infant Studies Panel #9: Emotional Development. 2017

• Society for Research in Child Development: Social, Emotional & Personality Panel. 2018; 2020; 2022

graduate student committees

dissertation committees

Jennifer Kling (committee chair), Psychological and Brain Sciences (2022 - present)

Sejal Mistry-Patel (committee chair), Psychological and Brain Sciences (2022 - present)

Jessica Lowe, Psychological and Brain Sciences, TAMU (2023-present)

Ogechi Nwadinobi, Educational Psychology, TAMU (2018-present)

Bryan Jackson, Psychological and Brain Sciences, TAMU (2021-2022)

Tristin Nyman (committee chair), Psychological and Brain Sciences (2020-2022)

Juliet Nyanamba, Educational Psychology, TAMU (2019-2022)

Kathleen Damberger, Nursing, Montana State University. (2015 – 2018)

Alyssa Carlson, Cell Biology and Neuroscience, Montana State University. (2016)

Lenore Page, Industrial Engineering, Montana State University. (2013 - 2016)

Jessica Haven, Nursing, Montana State University. (2015 – 2016)

master’s thesis committees

Yanai Otero La Porte, Psychological and Brain Sciences, (2022 - present)

Minchao Wang , Educational Psychology, TAMU (2020 – present)

Jennifer Kling (committee chair), Psychological and Brain Sciences, (2020–2022)

Priscilla Jacob, Psychological and Brain Sciences, TAMU (2019-2021)

Kaylin Barker, Educational Psychology, TAMU( 2019-2020)

Mara Canen (committee chair), Psychology, Montana State University. (2016 – 2017)

Reema Najjar(committee chair), Psychology, Montana State University. (2016 – 2017)

J. Patrick Begnoche (committee chair), Psychology, Montana State University. (2015 – 2016) Russell Hoeldtke, Psychology, Montana State University. (2015 – 2016)

Katherine Hart, Psychology, Montana State University. (2015 – 2017)

other committees

• Department of Psychological Sciences Awards Committee Chair (Fall 2021 – Spring 2022, Spring 2024 – present)

• Department of Psychological Sciences Search Committee (Fall 2018 – Spring 2019)

• Department of Psychological Sciences Undergraduate Curriculum Committee (Spring 2018)

• Department of Psychological Sciences Faculty Development and Awards Committee (Fall 2017 – Fall 2022)

• Psychology Faculty Search Committee (Spring 2015)

• Montana State University Institutional Review Board (2014 – Present)

• Penn State Department of Psychology BRIDGE Diversity Action Alliance (2008-2011)

• Social Development Faculty Search Committee (Spring 2008, Penn State)

• Search Committee for the Director of the Child Study Center (Spring 2007, Penn State) • Student Senate Publicity Committee Chair (2002-2003, Central College)

• Selection Committee for the Director of International Education (Fall 2002, Central College) • Teacher Education Faculty Committee (2000-2003, Central College)

• Optimal Size and Mix Task Force (Spring 2000, Central College)

• Faculty Assessment Committee (1999-2000, Central College)

other departmental service

• Lifespan Development Faculty Search Co-chair (Fall 2023)

• Associate Head, Department of Psychological and Brain Sciences (Fall 2021 – Fall 2022)

\*no acting head 3/1/22 – 4/11/22

• Cognition and Cognitive Neuroscience Area Head (Fall 2020 – Fall 2021)

• Presentation on graduate student grant funding opportunities (Fall 2018)

• Grant writing workshop, NIH Mentored K Awards (Career Development Awards, Fall 2017)

university service

• Associate Provost for Faculty Advocacy Search Committee Member (2024 – present)

* Life Sciences Meta Major Content Development Committee (2023-2024)

• Member of Council for Principal Investigators Executive Committee (2023-2024)

• Member of Council for Principal Investigators (2022-2025)

• Texas A&M Institute for Neuroscience Graduate Recruiting Committee (2022 – 2023)

* Texas A&M Institute for Neuroscience Graduate Program Committee (2020 – 2022)

• Mentor for TAMU Amig@s Colega (2019-2020)

* Faculty Mentor for Aggie Sisters in Healthcare (2019-2021)

press and media

* **Brooker, R.J., & Nyman, T.N. (2021). Pregnant women’s brains show troubling signs of stress – but feeling strong social support can break those patterns.** *The Conversation.* [*https://theconversation.com/pregnant-womens-brains-show-troubling-signs-of-stress-but-feeling-strong-social-support-can-break-those-patterns-145918*](https://theconversation.com/pregnant-womens-brains-show-troubling-signs-of-stress-but-feeling-strong-social-support-can-break-those-patterns-145918)