

## Rebecca J. Brooker

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### Professional Positions

9/2019 - present	Associate Professor	Texas A&M University Department of Psychological and Brain Sciences
5/2019 - present	Joint Appointment	Texas A&M University Educational Psychology
8/2013 - 11/2020	Honorary Fellow	University of Wisconsin - Madison Department of Psychology
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.	(Developmental Psychology)	The Pennsylvania State University
2006-2008	M.S.	(Developmental Psychology)	The Pennsylvania State University
2005-2006	<i>No Degree</i>	(Developmental Psychology)	University of Missouri-Columbia
2003-2005	<i>No Degree</i>	(Counseling Psychology)	Drake University
1999-2003	B.A.	(Psychology)	Central College

### Papers and Publications

#### peer-reviewed manuscripts

1. Davis, E.L., **Brooker, R.J.**, & Kahle, S. (*In Press*). Considering context in developmental psychobiology studies of self-regulation. *Developmental Psychobiology*.
2. **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.
3. **Brooker, R.J.**, Moore, M.N., Van Hulle, C.A., Beekman, C.R., †Begnoche, J.P., Lemery-Chalfant, K., & Goldsmith, H.H. (*in press*). Attentional control explains covariation between symptoms of ADHD and anxiety during adolescence. *Journal of Research on Adolescence*. Published online, 16 May. doi: [10.1111/jora.12506](https://doi.org/10.1111/jora.12506) NIHMSID: 1038458.
4. **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*. Published online, 3 July. doi: [10.1027/0269-8803/a000243](https://doi.org/10.1027/0269-8803/a000243) NIHMSID: 1037397.
5. Schmidt, N.L., **Brooker, R.J.**, Carroll, I.C., Gagne, J.R., Luo, Z., Moore, M.N., Planalp, E.M., Sarkisian, K., Schmidt, C.A., 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. PMID: PMC6750215.
6. 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.

7. 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.
8. **Brooker, R.J.** (2018). Parenting and socioeconomic status predict developmental changes in error-related negativity in young children. *Child Development, 89*(3), 725-733. PMID: PMC5948123.
9. 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. PMID: PMC5509479.
10. **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. PMID: PMC5507748.
11. #Canen, M.J. & **Brooker, R.J.** (2017). ERN, theta power, and risk for anxiety problems in preschoolers. *Biological Psychology, 123*, 103-110. PMID: PMC5292075.
12. #Najjar, R. & **Brooker, R.J.** (2017). Delta beta coupling is associated with paternal caregiving behaviors during preschool. *International Journal of Psychophysiology, 112*, 31-39. PMID: PMC5243183.
13. **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. PMID: PMC5102788.
14. **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. PMID: PMC27213729.
15. #Begnoche, J.P., **Brooker, R.J.**, & Vess, M. (2016). EEG asymmetry and ERN: Temperament outcomes in children. *PLoS ONE, 11*(5), e0155713. PMID: PMC4880182
16. **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. PMID: PMC4801734.
17. **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. PMID: PMC4666756.
18. \*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. PMID: PMC4727986.
19. **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. PMID: PMC4667033
20. **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. PMID: PMC3889174.
21. **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. PMID: PMC4061243.

22. **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. PMID: PMC4172515.
23. **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. PMID: PMC3981904.
24. **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. PMID: PMC4129944.
25. 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. PMID: PMC3675171.
26. 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. PMID: PMC3570675.
27. **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. PMID: PMC3547396.
28. **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. PMID: PMC3092557.
29. **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. PMID: PMC3158002.
30. 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. PMID: PMC3111917.
31. **Brooker, R.J.**, & Buss, K.A. (2010). Dynamic measures of RSA predict distress and regulation in toddlers. *Developmental Psychobiology*, *52*, 372-382. PMID: PMC2858777.
32. 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. PMID: Policy Exempt – Accepted for publication prior to 4/7/08.

**manuscripts under revision**

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

Kiel, E.J., †Phelps, R.A., & **Brooker, R.J.** (*Under Revision*). Maternal dynamic respiratory sinus arrhythmia during toddlers' interactions with novelty.

†Nyman, T., **Brooker, R.J.**, Kiel, E.J., \*Schmall, L.J., & \*Mistry, S. (*Invited Revision*). Maternal neural reactivity to emotion during pregnancy is modulated by perceptions of social support. *Psychophysiology*.

**manuscripts under review**

- Brooker, R.J.**, \*Mistry, S., Kiel, E.J., VanLieshout, R.J., Schmidt, L.A., & John-Henderson, N. (*Under Revision*). Infant negative reactivity modulates trajectories of maternal mental health symptoms during the pre- to postpartum period.
- 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. (*Invited Revision*). Using item response theory to evaluate the Children's Behavior Questionnaire: Considerations of general functioning and assessment length. *Psychological Assessment*.
- \*Hammond, M., **Brooker, R.J.**, Schlegel, R.J., Vess, M., Wines, M., Haven, J. (*Under Review*). Feelings of parent self-alienation moderate the link between breastfeeding experience and postpartum depression. *Women & Health*.
- ‡Nyman, T., Heffer, R.W., & **Brooker, R.J.** (*Under Review*). Discrete maternal anxiety symptoms predict early childhood ERN one year later. *Developmental Cognitive Neuroscience*.
- ‡Rivera, G.N., Vess, M., **Brooker, R.J.**, Stichter, M., & Neiderhiser, J.M. (*Invited Revision*). Viewing virtue as determined by genes relates to beliefs about the types of parenting practices that promote virtue. *Parenting: Science and Practice*.

#### Conference Presentations and Invited Talks

##### papers

- 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 to be 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 Society 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 Society 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 Society 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

- \*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 Society 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 Society for 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 Society 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., & Bandon, A.Y. (2010). *Individual differences in fear influence attention-based performance.* Poster presented at the biennial meeting of the International Society 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 socio-emotional 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 Society 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.** (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). *Context 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.

‡Denotes graduate student/trainee author

\*Denotes undergraduate student/trainee author

## Funding

### active grants and contracts

- |  |                          |
|--|--------------------------|
| Texas A&M Triads for Transformation<br><i>Secondary and contextual influences on children's development: Insights from secondary data analysis</i><br>Role: Co-investigator (PI: Dr. Idean Ettekal)<br>January 2019 – December 31, 2020            | Total Costs: \$33,914    |
| Eunice Kennedy Shriver<br>National Institute of Child Health and Human Development.<br><i>Play &amp; learning across a year (PLAY)</i><br>Role: Consultant<br>August 2018 – May 2023   | Total Costs: \$8,200,000 |
| TAMU Liberal Arts Social Science Consortium Proof of Concept Grant<br><i>Using the Late Positive Potential to Measure Emotional Reactivity in Infants</i><br>Role: Primary Investigator<br>July 2018-December 2018                                 | Total Costs: \$5,000     |
| Victoria S. Levin Award for Early Career Success in Young Children's Mental Health Research<br><i>Bidirectional effects on anxiety risk in mothers and infants</i><br>Role: Primary Investigator<br>January 2018 – June 2019                       | Total Costs: \$25,000    |
| Texas A&M University College of Education and Human Development Catapult<br><i>A comprehensive investigation of early self-control development and school readiness</i><br>Role: Co-Investigator (PI: Dr. Jeffrey Gagne)<br>January 2018-June 2019 | Total Costs: \$29,331    |
| 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

**Completed Funding****grants and contracts**

Montana State University College of Nursing  
*Bio-energy for stress relief: Future directions*  
Role: Co-Investigator (PI: Dr. Alice Running)  
July 2017 – June 2018  
Total Costs: \$4,192

P20 GM104417  
*Center for Health Equity in Rural Montana*  
Role: Pilot Project Leader  
PI: Dr. Alexandra Adams  
September 2014-August 2017  
Project total costs: \$222,062

K01 MH100240  
*Convergent Markers of Risk for Psychopathology in Infants and Toddlers*  
Role: Primary Investigator  
April 2013 – July 2017  
Total costs: \$499,099

State of Montana Commissioner of Higher Education  
*The Synergistic Improvement in the Diagnosis and Treatment of Mental Illness, Dementia, & Chronic Pain*  
Role: Primary Investigator, Project 1  
PI: Drs. Matt Byerly and Frances Lefcort  
August 2015 – June 2017  
Total costs: \$952,058  
Project 1 costs: \$329,058

**applications under review**

R01MH113669  
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  
Submitted July 2019  
Priority Score: 25; Percentile: 8

Eunice Kennedy Shriver National Institute of Child Health and Human Development  
*R01HD: Self-control, behavioral inhibition and school readiness: A comprehensive investigation from preschool through elementary school transition*  
Amount (Direct): \$1,637,158  
Total Amount: \$2,393,487  
Role: Co-investigator  
Purpose: research

Texas A&M University X-Grants  
*Self-control, behavioral inhibition, school readiness, and academic adjustment: A comprehensive developmental investigation from preschool through adolescence*  
Amount (Direct): Letter of Intent, full budget not calculated  
Total Amount: Letter of Intent, full budget not calculated  
Role: Co-investigator  
Purpose: research

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 grants and fellowships

TAMU Clinical Area Summer Research Award

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 J. 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

R03HD  
 Eunice Kennedy Shriver National Institute of Child Health and Human Development  
*Early self-control development, behavior problems, and school readiness: Integrating cognitive, emotional, and biological approaches*  
 Role: Co-investigator  
 Submitted June 2019 Priority Score: 40; Percentile: 29

R21MH117373 Total costs: \$275,000  
 National Institute of Mental Health  
*Effects of maternal treatment on early risk for anxiety problems: The role of biological systems*  
 Role: Primary Investigator  
 Submitted October 2017  
 Priority Score: 58

Jacobs Foundation Total Costs: \$157,000  
*Jacobs Early Career Research Fellowship*  
 Role: Research Fellow

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 (Dr. Ryan Niehus, Co-PI and Dr. Edward Dratz, Co-PI)

F32 MH092995 Total Costs: \$143,916  
*The Development of Cognitive Control and Associated Risk for Internalizing Problems in Childhood*  
 Role: Primary Investigator

‡Denotes student/trainee award.

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## Teaching Experience

### instruction

*Advanced Seminar in Developmental Psychology* (Spring 2020)  
*Developmental Psychology*, Texas A&M University (Spring 2018, Spring 2019, Fall 2019, Spring 2020)  
*Advanced Statistical Analysis*, Montana State University (Spring 2015, 2016)  
*Temperament and Development*, Montana State University (Spring 2014)  
*Introduction to Human Development and Family Studies*, The Pennsylvania State University (Summer 2011)  
*Elementary Statistics in Psychology*, Penn State World Campus (Fall 2010, Spring 2011)  
*Developmental Psychology*, Penn State World Campus (Summer 2010)  
*General Psychology*, Central College (Fall 2002, Spring 2003; Supplemental Instructor)

### undergraduate independent research supervision

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 (5-10 per academic semester; 5-6 per summer term)

#### graduate student supervision

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)

#### guest lectures

*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**

- *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

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 NIH RDoC 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
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## Service

### professional activities and affiliations

- 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 Psychology*
- *Clinical Psychological Science*
- *Cognitive, Affective, and Behavioral Neuroscience*
- *New Ideas in Psychology*
- *Developmental Psychobiology*
- *Early Education and Development*
- *Hormones and Behavior*
- *Infant and Child Development*
- *International J. of Psychophysiology*
- *International J. of Developmental Neuroscience*
- *J. of Child Psychology and Psychiatry*
- *J. of Research on Adolescence*
- *J. of Research in Personality*
- *J. of Experimental Child Psychology*
- *Developmental Neuropsychology*
- *Philosophical Transactions of the Royal Society B*
- *Psychoneuroendocrinology*
- *Psychophysiology*
- *Sex Roles*
- *Social Development*
- *Twin Research and Human Genetics*

**grant reviewing**

- National Institutes of Health, Psychosocial Development, Risk, and Prevention Study Section. 2020
- National Institutes of Health, Child Psychology and Developmental Disabilities Study Section. 2019
- National Science Foundation Panelist. 2014, 2015, 2017, 2018.
- National Institutes of Health Early Career Reviewer. 2014 – present.
- State of Montana Youth Crisis Diversion Research Funding. 2014.

**conference review panels**

- International Congress on Infant Studies Panel #9: Emotional Development. 2017-18
- Society for Research in Child Development: Social, Emotional & Personality Panel. 2018-19.

**graduate student committees**

**dissertation committees**

- Juliet Nyanamba, *Educational Psychology*, TAMU (2019-present)
- Ogechi Nwadinobi, *Educational Psychology*, TAMU (2018-present)
- 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**

- Chih-Tsen Liu (graduate advisory committee) *Educational Psychology*, TAMU (2019 – present)
- Priscilla Jacob, *Psychology*, TAMU (2019-present)
- 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 Search Committee (Fall 2018 - present)
- Department of Psychological Sciences Undergraduate Curriculum Committee (Spring 2018)
- Department of Psychological Sciences Faculty Development and Awards Committee (Fall 2017 - present)
- 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 service**

- Grant writing workshop, *NIH Mentored K Awards (Career Development Awards)* (Fall 2017)
- Presentation on graduate student grant funding opportunities (Fall 2018)