

Rebecca J. Brooker

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Professional Positions

8/2013 – present	Assistant Professor	Montana State University Department of Psychology
8/2013 – present	Honorary Fellow	University of Wisconsin - Madison 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

Brooker, R.J., Alto, K.M., Marceau, K., #Najjar, R., Leve, L.D., Ganiban, J.M., Reiss, D., Shaw, D.S., & Neiderhiser, J.M. (*in press*). Genetic risk for anxiety moderates the association between child-centered parenting and early social inhibition. *Journal of Developmental Origins of Health and Disease*.

Brooker, R.J., Kiel, E.J., & Buss, K.A. (*in press*). Early social fear predicts kindergarteners' socially anxious behaviors: Direct associations, moderation by inhibitory control, and differences from nonsocial fear. *Emotion*. PMID: PMID: 27213729.

#Begnoche, J.P., **Brooker, R.J.**, & Vess, M. (2016). EEG asymmetry and ERN: Temperament outcomes in children. *PLoS ONE, 11*(5), e0155713. PMID: PMC4880182

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.

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.

#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.

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 Developmental Psychology, 6*, 1875. PMID: PMC4667033

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.

- 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.
- 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.
- 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 & Psychopathology, 26*, 347-359. PMID: PMC3981904.
- 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.
- 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.
- 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 & Human Genetics, 16*(Special Issue 1), 376-384. PMID: PMC3570675.
- 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.
- 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.
- 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.
- 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.
- Brooker, R.J., & Buss, K.A.** (2010). Dynamic measures of RSA predict distress and regulation in toddlers. *Developmental Psychobiology, 52*, 372-382. PMID: PMC2858777.
- 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 review

- ‡Canen, M.J. & **Brooker, R.J.** (*Under Review*). ERN, theta power, and risk for anxiety problems in preschoolers. *Biological Psychology*.
- ‡Najjar, R. & **Brooker, R.J.** (*Under Review*). Delta beta coupling is associated with paternal caregiving behaviors during preschool. *International Journal of Psychophysiology*.

Van Hulle, C.A., Moore, M.N., Goldsmith, H.H., & **Brooker, R.J.** (*Under Review*). Infant stranger fear trajectories predict diurnal cortisol rhythm and anxious behaviors during childhood. *Development and Psychopathology*.

manuscripts under revision

Brooker, R.J., †Canen, M.J., Davidson, R.J., & Goldsmith, H.H. (*Under Review*). Short- and long-term stability of alpha asymmetry: Baseline and affective measures. *Psychophysiology*.

manuscripts in preparation

Brooker, R.J., Van Hulle, C.A., Beekman, C.R., Moore, M.N., †Begnoche, J.P., Lemery-Chalfant, K., & Goldsmith, H.H. (*In Prep*). Attention control shares genetic and environmental influences with anxiety and ADHD symptoms during adolescence.

Brooker, R.J., Schmidt, L.A., †Canen, M.J., Bates, J.E., Buss, K.A., Dennis, T.A., Gatzke-Kopp, L., Hajcak, G., Hoyniak, C., Klein, D., Kujawa, A., Lamm, C., Moser, J.S., Peterson, I.T., & Woltering, S. (*In Prep*). Toward the development of guidelines for conducting event related potential (ERP) research with young children.

Moore, M.N., Van Hulle, C.A., **Brooker, R.J.**, & Goldsmith, H.H. (*In Prep*). Psychophysiological differences between social and infant fear during infancy and early childhood.

Conference Presentations and Invited Talks

papers

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.

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.
- 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.
- 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**
- ‡Canen, M.J., & **Brooker, R.J.** (2016). ERN and theta dynamics: Links with anxiety risk in preschoolers. Poster to be 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 to be presented at the annual meeting of the Society for Psychophysiological Research; Minneapolis, MN.
- ‡Schmall, L.J. & **Brooker, R.J.** (2016). Stress-related changes in neural markers of regulation in pregnant women are buffered by social support. Poster to be 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.
- ‡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.
- 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.
- ‡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.** (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 student/trainee author.

Funding

current applications

National Institute of Mental Health
Transactional Models of Risk for Anxiety Problems in the First Three Years of Life
 Role: Primary Investigator
 Anticipated Submission October 2016

active grants and contracts

The John Templeton Foundation: Genetics and Human Agency
How do Perceptions About Heritability Influence Complex Child-Parent Interactions and Character Development?
 Role: Co-Investigator
 PI: Dr. Matthew Vess
 September 2016 – August 2019
 Total Costs: \$523,485

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

P20 GM104417
Center for Health Equity in Rural Montana
 Role: Pilot Project Leader

PI: Dr. Allen G. Harmsen
 September 2014-August 2016
 Amount Awarded: \$179,544

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

Completed Funding

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

Montana State University Undergraduate Scholars Program Research Award
Changes in Neural Markers in Pregnant Women Due to Stress
 Role: Mentor
 PI: Lisa J. Schmall
 August 2015-December 2015
 Total Costs: \$900

Montana State University Graduate Student Research Grant
 Role: Mentor
 Awardee: J. Patrick Begnoche
 Fall 2015
 Total Costs: \$475 (*funding declined*)

Montana State University Presidential Emerging Scholar Grant
 Role: Mentor
 Awardee: Lindsey Whitcomb
 Summer 2015
 Total Costs: \$3000

Montana INBRE Undergraduate Research Award
Cognitive Control: Physical Responses of At-Risk Adults Due to High Allostatic Load
 Role: Mentor
 PI: Holly Howe

September 2014 – May 2015
Total Costs: \$1,800

Montana State University Undergraduate Scholars Program Research Award
Composites of Neural Makers of Prediction of Risk for Anxiety Symptoms
Role: Mentor
PI: Randi A. Phelps
May 2014-August 2014
Total Costs: \$900

Montana INBRE Undergraduate Research Award
Cognitive Control: Physical Responses of At-Risk Adults Due to High Allostatic Load
Role: Mentor
PI: Holly Howe
January 2014-May 2014
Total Costs: \$900

unfunded applications

Jacobs Foundation
Jacobs Early Career Research Fellowship
Role: Research Fellow
Under Review April 2016
Total Costs: \$157,000

Montana Mental Health Trust
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)
Total costs: \$201,604

F32 MH092995
The Development of Cognitive Control and Associated Risk for Internalizing Problems in Childhood
Role: Primary Investigator

#Denotes student/trainee award.

Teaching Experience

instruction

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 (8-10 per academic semester; 5-6 per summer term)

graduate student supervision

J. Patrick Begnoche, *primary mentor*, Montana State University Master's Program
 Mara Canen, *primary mentor*, Montana State University Master's Program
 Reema Najjar, *primary mentor*, Montana State University Master's Program
 Katie Garrison, *secondary mentor*, Montana State University Master's Program
 Stephanie Leal, *summer mentor*, Montana State University Master's Program
 Russell Hoeldtke, *summer mentor*, Montana State University Master's Program

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

- 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)
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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

Service

professional activities and affiliations

- Society for Psychophysiological Research
- Society for Research in Child Development
- International Society on Infant Studies
- American Psychological Association (Division 7)
- Midwestern Psychological Association
- Association for Psychological Science
- International Neuroethics Society

ad-hoc reviewer

- *Adoption Quarterly*
- *Behavior Genetics*
- *Biological Psychology*
- *Child Development*
- *Clinical Psychological Science*
- *Developmental Neuropsychology*
- *Developmental Psychobiology*
- *Developmental Psychology*
- *Emotion*
- *Frontiers in Genetics*^{##}
- *Hormones and Behavior*
- *Infant and Child Development*
- *International Journal of Psychophysiology*
- *International Journal of Developmental Neuroscience*
- *Journal of Research on Adolescence*
- *Journal of Experimental Child Psychology*
- *Psychoneuroendocrinology*
- *Sex Roles*
- *Twin Research and Human Genetics*

^{##}editorial board

grant reviewing

- National Institutes of Health Early Career Reviewer. 2015-present.
- State of Montana Youth Crisis Diversion Research Funding. August 2015.
- National Science Foundation, Panelist. 2014, 2015, 2016.

graduate student committees

dissertation committees

- Kathleen Damberger, *Nursing*, Montana State University. (2015 – present)
- Lenore Page, *Industrial Engineering*, Montana State University. (2013 - 2016)
- Jessica Haven, *Nursing*, Montana State University. (2015 – 2016)

master's thesis committees

- 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 – present)

other committees

- 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)