

Curriculum Vitae

Kelley Elizabeth Gunther

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Current Employment

Assistant Research Scientist

October 2023 – present

University of Maryland Applied Research Lab for Intelligence and Security –
Intelligent Human-Machine Systems

Faculty, Program in Neuroscience and Cognitive Science (NACS)

College Park, MD

Education & Training

Susan Nolen-Hoeksema Postdoctoral Fellow

August 2022 – October 2023

Yale University

New Haven, CT

Advisors: Dr. Dylan Gee, Dr. Jutta Joormann

PhD, Developmental Psychology

August 2022

The Pennsylvania State University

University Park, PA

NSF Graduate Research Fellow

Advisor: Dr. Koraly Pérez-Edgar | Secondary Advisor: Dr. Charles Geier

Dissertation: Multi-modal measurements of top-down influences on anxiety risk

MS, Developmental Psychology

December 2019

The Pennsylvania State University

University Park, PA

Advisor: Dr. Koraly Pérez-Edgar

Thesis: Inhibitory Control as a Risk Factor for Internalizing Behaviors in
Behaviorally Inhibited Children: A Mobile Eye Tracking Investigation

Postbaccalaureate Research Assistant/Laboratory Manager 2015-2017

Brown University

Providence, RI

Advisor: Dr. Dima Amso

BS, Major: Psychology | Minor: Neuroscience

May 2015

University of Maryland

College Park, MD

Gemstone Honors Program

Advisors: Dr. Nathan Fox, Dr. Erica Glasper

Publications

Gunther, K. E., Edelman, A., Petrie, D., Kober, H., Gee, D. G., Joormann, J., & Gadassi Polack, R. (in press). Dynamics between affect and social acceptance as a function of social anxiety: A person-specific network approach. *Emotion*.

Gunther, K. E., Fu, X., MacNeill, L. A., Jones, M., Ermanni, B., & Perez-Edgar, K. (2024) Now it's your turn!: Eye blink rate in a Jenga task modulated by interaction of task wait times, effortful control, and internalizing behaviors. *PLOS One*, 19(3), e0294888. <https://doi.org/10.1371/journal.pone.0294888>

Vallorani, A., **Gunther, K. E.**, Burris, J. L., LoBue, V., Buss, K. A., & Pérez-Edgar, K. (in press). Individual differences in developmental trajectories of affect-biased attention and relations with caregiver anxiety symptoms, infant temperamental negative affect, and social behavior with peers. *Emotion*.

Lytle, M. N., **Gunther, K. E.**, & Pérez-Edgar, K. (in press) External and Internal Attention Processes in the Early Integration of Cognition and Emotion: Risk and Protective Factors for Anxiety in the Context of Behavioral Inhibition. In M.A. Bell (Ed.), *Child Development at the Intersection of Emotion and Cognition (2nd edition)*, Washington, DC: Springer.

Gunther, K. E., Petrie, D., Pérez-Edgar, K & Geier, C. (2023). Relations between executive functioning and internalizing symptoms vary as a function of frontoparietal-amygdala resting state connectivity. *Research on Child and Adolescent Psychopathology*, 51(6), 775-788. <https://doi.org/10.1007/s10802-023-01025-4>.

- Vallorani, A., **Gunther, K. E.**, Anaya, B., Burris, J. L., Field, A. P., Lobue, V., Buss, K. A., Pérez-Edgar, K. (2023). Bi-directional relations between maternal anxiety and infant affect-biased attention across the first 24-months of life. *Developmental Psychology*, *59*(2), 364-376. <https://doi.org/10.1037/dev0001479>
- Gunther, K. E.**, Anaya, B., Myruski, S., Burris, J., LoBue, V., Buss, K. A., & Pérez-Edgar, K. (2022). Variability in Caregiver Attention Bias to Threat: A Goldilocks Effect in Infant Emotional Development? *Development and Psychopathology*, advance online publication. <https://doi.org/10.1017/S0954579422000736>
- Gunther, K. E.**, Petrie, D., Pearce, A. L., Fuchs, B., Pérez-Edgar, K., Keller, K. L., & Geier, C. (2022). Heterogeneity in PFC-amygdala connectivity in middle childhood, and concurrent interrelations with inhibitory control and anxiety symptomology. *Neuropsychologia*, *174*, 108313. <https://doi.org/10.1016/j.neuropsychologia.2022.108313>
- Diercks, C. M., **Gunther, K. E.**, Lunkenheimer, E., & Teti, D. M. (2022). Parental executive functions and harsh parenting: A case for moving forward with increased ecological validity. *Child Development Perspectives*, *16*, 208-214. <https://doi.org/10.1111/cdep.12464>
- Bierstedt, L., Reider, L., Burris, J., Vallorani, A., **Gunther, K. E.**, Buss, K., Pérez-Edgar, K., & Lobue, V. (2022). Bi-directional Relations between Attention and Social Fear Across the First Two Years of Life. *Infant Behavior and Development*, *69*, 101750. <https://doi.org/10.1016/j.infbeh.2022.101750>
- Reider, L., Bierstedt, L., Burris, J., Vallorani, A., **Gunther, K. E.**, Buss, K., Pérez-Edgar, K., Field, A., & Lobue, V. (2022). Developmental Patterns of Affective Attention Across The First Two Years of Life. *Child Development*, *93*, e607-3621. <https://doi.org/10.1111/cdev.13831>
- Vallorani, A., Brown, K. M., Fu, X., **Gunther, K. E.**, MacNeill, L. A., Ermanni, B., Hallquist, M. N., & Pérez-Edgar, K. (2022). Affect Influences Social Attention Captured via Mobile Eye-Tracking During Dyadic Play in Young Children. *Developmental Psychology*, *58*(11), 2036-2048. <https://doi.org/10.1037/dev0001412>
- Gunther, K. E.**, Anaya, B., & Pérez-Edgar, K. (2022). Reducing measurement error with ecologically valid testing methods. *Infant and Child Development*, *31*, e2338. <https://doi.org/10.1002/icd.2338>

- Ostlund, B., Donoghue, T., Anaya, B., **Gunther, K. E.**, Karalunas, S. L., Voytek, B., & Pérez-Edgar, K. E. (2022). Spectral parameterization for studying neurodevelopment: How and why. *Developmental Cognitive Neuroscience*, 54, 101073. <https://doi.org/j.dcn.2022.101073>
- Gunther, K. E.**, Fu, X., MacNeill, L., Vallorani, A., Ermanni, B., & Pérez-Edgar, K. (2021). Profiles of naturalistic attentional trajectories associated with internalizing behaviors in school-age children: A mobile eye tracking study. *Research on Child and Adolescent Psychopathology*, 50(5), 637-648. <https://doi.org/10.1007/s10802-021-00881-2>
- Gunther, K. E.**, Brown, K. M., Fu, X., MacNeill, L., Jones, M., Ermanni, B., & Pérez-Edgar, K. (2021). Mobile Eye Tracking Captures Changes in Attention Over Time During a Naturalistic Threat Paradigm in Behaviorally Inhibited Children. *Affective Science*, 2(4), 495-505. <https://doi.org/10.1007/s42761-021-00077-3>
- Burris, J. L., Reider, L. B., Oleas, D. S., **Gunther, K. E.**, Buss, K., Pérez-Edgar, K., Field, A. P., & LoBue, V. (2021). Moderating Effects of Environmental Stressors on the Development of Attention to Threat in Infancy. *Developmental Psychology*, 64(3), e22241. <https://doi.org/10.1002/dev.22241>
- Gunther, K. E.** & Pérez-Edgar, K. (2021). Dopaminergic Associations between Behavioral Inhibition, Executive Functioning, and Anxiety in Development. *Developmental Review*, 60, 100966. <https://doi.org/10.1016/j.dr.2021.100966>
- Pérez-Edgar, K., LoBue, V., Buss, K. A., Field, A. P., Reider, L., Burris, J., Oleas, D., Zhou, A., Thomas, C., Leigh, S., Ostlund, B., Anaya, B., **Gunther, K.**, Vallorani, A., Youatt, E., Smith, C., Promagan, N., Brown, K., Bierstedt, L., Pinzon, C., Revilla, K., Sarquez, M., Fu, X., Morales, S., MacNeill, L., Auday, E., Ermanni, B., Tucker, D., & Metcalf, K. (2021). Study Protocol: Longitudinal Attention and Temperament study (LAnTs). *Frontiers in Psychiatry*, 12, 679. <https://doi.org/10.3389/fpsy.2021.656958>
- Gunther, K.**,⁺ Youatt, E.,⁺ & Pérez-Edgar, K. (2020). The biology of shyness and adapting to threat. In L. A. Schmidt & K. L. Poole (Co-Eds.), *Adaptive Shyness: Developmental, Comparative, and Cultural Perspectives*, Cham, Switzerland: Springer.

Registered Reports

Gunther, K. E., Keding, T. J., Petrie, D., Pérez-Edgar, K., Geier, C., & Gee, D. (In Principle Acceptance). Characterizing resting state frontoparietal-amygdala network connectivity as a potential moderator of the developmental link between executive functioning and internalizing symptoms: A GIMME-based approach. *Biological Psychiatry Global Open Science*.

Bas-Hoogendam, J. M., Bernstein, R., Benson, B., ... Gunther, K. E.,... & Pine, D. S. (In Principle Acceptance) Structural brain correlates of childhood inhibited temperament: an ENIGMA-Anxiety mega-analysis. *Journal of the American Academy of Child and Adolescent Psychiatry*.

Preregistrations

MacNeill, L. A., Gunther, K. E., Merrick, J., Miller, C., & Wakschlag, L. S. (in prep). A systematic review of protective and promotive factors for internalizing and externalizing problems in children ages 0 to 6. *Prospero*.

Publications under review

Gunther, K. E., Werchan, D. M., Anaya, B., Vallorani, A., Pérez-Edgar, K., & Amso, D. (revise and resubmit). Maternal buffering of neural and attentional responses to emotionally valenced stimuli in infancy.

Pérez-Edgar, K., Gunther, K. E., & Vallorani, A. (under review). The wobbly bits of development: Variability, fluctuations, and synchrony as temporal markers linking temperament and psychopathology.

Fu, X., Franchak, J. M., MacNeill, L. A., Gunther, K. E., Borjon, J. I., Yurkovic-Harding, J., Harding, S., Bradshaw, J., & Pérez-Edgar, K. E. (revise and resubmit). Implementing Mobile Eye Tracking in Psychological Research: A Practical Guide.

Publications in prep

Gunther, K. E., Petrie, D., Kitt, E. R., Broussard, A., Zacharek, S. J., Nardini, C., Hommel, G., Martino, A., Anderson, T., Spencer, H., Odriozola, P., Marin, C. E., Silverman, W.K., Lebowitz, E. R., & Gee, D. G. (in prep). Resting state fronto-amygdala connectivity associated with a parent-focused intervention for childhood anxiety.

Oral Presentations

Gee, D., **Gunther, K. E.**, Petrie, D., Kitt, E., Keding, T., Broussard, A., Zacharek, S., Nardini, C., Hommel, G., Martino, A., Anderson, T., Spencer, H., Odriozola, P., Marin, C., Silverman, W., & Lebowiz, E. (2024, May). Symposium on “A Transdiagnostic Exploration of the Boundaries Between Threat and Safety Learning.” Changes in Frontoamygdala Circuitry Associated With a Parent-Focused Intervention for Pediatric Anxiety Disorders. Paper presented at the Society of Biological Psychiatry, Austin TX.

Gunther, K. E., Petrie, D., Kitt, E. R., Broussard, A., Zacharek, S., Nardini, C., Hommel, G., Martino, A., Anderson, T., Spencer, H., Odriozola, P., Marin, C. E., Silverman, W., Lebowitz, E. R., & Gee, D. G. (2023, July). Resting State Fronto-Amygdala Network Density Associated with a Parent-Focused Intervention for Childhood Anxiety. Talk presented at the International Society for Developmental Psychobiology, Utrecht, Netherlands. **Postdoc Travel Award Recipient.**

Gunther, K. E., Anaya, B., Fisher, Z., Jones, M., Petrie, D., Hlutkowsky, C., & Pérez-Edgar, K. (2023, March). Symposium on “Parent-Child Biobehavioral Synchrony at Multiple Levels of Analysis.” A person-centered, network-based approach to mother-infant neural synchrony with functional near infrared spectroscopy. Paper presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City UT. **Symposium Chair.**

Vallorani, A., **Gunther, K. E.**, Burris, J., LoBue, V., Buss, K. A., & Pérez-Edgar, K. (2023, March). Symposium on “Temperament and Social Relationships: Multiple Methods for Understanding the Whole Child Across Development.” Infant Temperamental Negative Affect Relates to Social Behavior with Peers but not Early Social Attention Trajectories. Paper presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City UT.

Burris, J., Reider, L., Gunther, K. E., Buss, K., Pérez-Edgar, K., & LoBue, V. (2023, March). Symposium on “Biopsychosocial processes in early development: Using large-scale longitudinal studies to uncover interacting developmental mechanisms.” Moderating effects of environmental stressors on the development of attention to threat in infancy. Paper presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City UT.

- Pérez-Edgar, K., **Gunther, K.**, Vallorani, A, MacNeill, L., & Fu, X. (2021, November). Symposium on “Capturing Heterogeneity in Rodent and Human Social Behavior in ‘Real World’ Settings” Using Mobile Eye-Tracking to Capture Attention and Social Behavior In-the-Moment. Paper presented at the International Society for Developmental Psychobiology, Chicago, IL. **Student Travel Award Recipient.**
- Gunther, K. E.**, Brown, K. M., Fu, X., MacNeill, L., Ermanni, B., & Pérez-Edgar, K. (2021, April). Symposium on “Beyond the dot probe: Innovations in measuring affect-biased attention across development.” Behavioral Inhibition Significantly Relates to Attentional Orienting to High Social Threat in Kindergarteners. Paper presented at the biennial meeting of the Society for Research in Child Development, Virtual. **Symposium Chair.**
- MacNeill, L., **Gunther, K. E.**, Buss, K. A., LoBue, V., & Pérez-Edgar, K. (2021, April). Symposium on “Advances in the Study of Parenting and Infant Emotional Development: Merging Modern and Traditional Measures.” Profiles of Parenting Risk Predict Infant Temperament and Attention to Threat. Paper presented at the biennial meeting of the Society for Research in Child Development, Virtual.
- Vallorani, A., **Gunther, K. E.**, Anaya, B., Morales, S., Fu, X., Burris, J. L., Field, A. P., Buss, K. A., Lobue, V., Pérez-Edgar, K. (2021, April). Symposium on “Parental and Child Influences on the Transmission and Development of Anxiety.” Relations Between Affect-Biased Attention, Maternal Anxiety, and Infant Negative Affect in Cross-Sectional and Longitudinal Samples. Paper presented at the biennial meeting of the Society for Research in Child Development, Virtual.
- Vallorani, A., Brown, K. M., Fu, X., **Gunther, K. E.**, MacNeill, L. A., Ermanni, B., Hallquist, M. N., & Pérez-Edgar, K. Symposium on “Timescales in the Study of Social Relationships: From Getting to Know You to Strengthening Bonds.” Affect Influences Subsequent Social Attention Captured Via Mobile Eye-Tracking During Dyadic Play in Young Children. Paper presented at the biennial meeting of the Society for Research in Child Development, Virtual.
- Pérez-Edgar, K., **Gunther, K.**, & Vallorani, A. (2020, November). Symposium on “Paradigm Shifts in the Study of Attention Biases from Infancy to Adulthood.” Using Mobile Eye-Tracking to Capture Attentional Dynamics in the Context of Temperamental Risk for Internalizing Disorders. Paper presented at the Association for Behavioral and Cognitive Therapies Annual Convention, Virtual

Pérez-Edgar, K., MacNeill, L., Burris, J. L., **Gunther, K.**, Buss, K. A., & LoBue, V. (2019, July). Emerging Patterns of Mother-Infant Relations: Maternal Anxiety, Infant Temperament, and Infant Attention Bias to Emotion. Paper presented at the 9th World Congress of Behavioural and Cognitive Therapies, Berlin, Germany.

Gunther, K. E., Fu, X., MacNeill, L. A., Ermanni, B., Vallorani, A., Buss, K. A., & Pérez-Edgar, K. (2019, March). Symposium on “The Multiple Factors Influencing Developmental Pathways of Behavioral Inhibition.” Characterizing Naturalistic Sustained Attention in Behaviorally Inhibited Children: Risk Factors for Internalizing Symptoms. Paper presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD. **2019 Travel Award Recipient.**

Vallorani, A., Brown, K. M., Fu, X., **Gunther, K.**, MacNeill, L. A., & Pérez-Edgar, K. (2019, March). Symposium on “Neurocognitive Mechanisms of Reward Processing and Social Dysfunction across Childhood and Adolescence.” Processing Social and Non-Social Rewards in the Peer Context: The Role of Temperament. Paper presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.

Haas, S. A., Amso, D., **Gunther, K. E.**, & Fox, N. A. (2015, March). Symposium on “Challenges and Innovations in the Measurement of Threat Bias in Anxious Children.” Age-Related Changes in Performance on an Emotional Priming Visual Search Task. Paper presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

Invited Talks

Gunther, K. E. (2023, February). Behind every data point is a person. TEDx Penn State, University Park, PA.

Poster Presentations

**** denotes co-mentored undergraduate student**

Gunther, K. E., Petrie, D., Kitt, E. R., Broussard, A., Zacharek, S., Nardini, C., Hommel, G., Martino, A., Anderson, T., Spencer, H., Odriozola, P., Marin, C. E., Silverman, W., Lebowitz, E. R., & Gee, D. G. (2023, July). Resting State Fronto-Amygdala Network Density Associated with a Parent-Focused Intervention for Childhood Anxiety. Poster presented at the Flux Congress on Integrative Developmental Neuroscience, Santa Rosa, CA.

Gunther, K. E., Kitt, E. R., Broussard, A., Petrie, D., Zacharek, S., Nardini, C., Hommel, G., Martino, A., Anderson, T., Spencer, H., Odriozola, P., Marin, C. E., Silverman, W., Lebowitz, E. R., & Gee, D. G. (2023, March). Resting State Fronto-Amygdala Network Connectivity Associated with a Parent-Focused Intervention for Childhood Anxiety. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, UT.

Jones, M. E.**, **Gunther, K. E.**, Anaya, B., Hlutkowsky, C. O., & Pérez-Edgar, K. (2023, March). Authoritarian style relates to changes in neural synchrony between mothers and infants across the Still-Face Paradigm. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, UT.

Fernandez, Y.**, **Gunther, K. E.**, Gilmer, M. A., LoBue, V., Buss, K. A., * Pérez-Edgar, K. (2023, March). Home chaos at 18 months relates to infant anger and social fear from 18-to-24 months. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, UT.

Gunther, K. E., Petrie, D., Geier, C., Pérez-Edgar, K. (2022, September). Relations between executive functioning and internalizing symptoms vary as a function of frontoparietal-amygdala resting state connectivity. Poster presented at the Flux Congress on Integrative Developmental Neuroscience, Paris, France.

Gunther, K. E., Anaya, B., Myruski, S., LoBue, B., Buss, K. A., & Pérez-Edgar, K. (2022, July). Caregiver dot probe attention bias variability predicts changes in negative affect across the first two years of life. Poster presented at the International Congress of Infant Studies, Ottawa, CA.

Fernandez, Y.**, **Gunther, K. E.**, Gilmer, M., LoBue, V., Buss, K. A., & Pérez-Edgar, K. (2022, July). Associations between maternal report of home chaos at 18 months and change in infant anger and social fear between 18 and 24 months. Poster accepted to the biennial meeting of the International Congress on Infant Studies, Ottawa, CA.

Jones, M.**, **Gunther, K. E.**, Anaya, B., LoBue, B., Buss, K. A., & Pérez-Edgar, K. (2022, July). Associations between home chaos, maternal depression, and infant attention to emotion at 18 months of age. Poster presented at the International Congress of Infant Studies, Ottawa, CA.

- Gunther, K. E.**, Fu, X., MacNeill, L., Jones, M.**, Ermanni, B., & Pérez-Edgar, K. (2021, November). Now it's your turn!: Eye blink rate modulated by interaction of wait times, inhibitory control, and internalizing behaviors in a Jenga-like inhibitory control task. Poster presented at the International Society for Developmental Psychobiology, Chicago, IL. **Student Travel Award Recipient.**
- Gunther, K. E.**, Fu, X., MacNeill, L., Jones, M.**, Ermanni, B., & Pérez-Edgar, K. (2021, September). Now it's your turn!: Eye blink rate modulated by interaction of wait times, inhibitory control, and internalizing behaviors in a Jenga-like inhibitory control task. Poster presented at the Flux Congress on Integrative Developmental Neuroscience, Virtual.
- Smith, C., Anaya, B., **Gunther, K.**, Pérez-Edgar, K., Buss, K., & LoBue, V. (2021, April). Trajectories of Maternal Anxiety as a Function of Infant Negative Reactivity and Perceived Daily Stress. Poster presented at the biennial meeting of the Society for Research in Child Development, Virtual.
- Gunther, K. E.**, Petrie, D., Pearce, A. L., Fuchs, B., Keller, K. L., & Geier, C. (2020, September). Examining inhibitory control as a moderator between childhood resting state fronto-limbic connectivity and anxiety. Poster presented at the Flux Congress on Integrative Developmental Neuroscience, Virtual.
- Vallorani, A.⁺, Brown, K. M.⁺, Fu, X., **Gunther, K. E.**, MacNeill, L. A., Ermanni, B., Hallquist, M. N., & Pérez-Edgar, K. (2020, September). Affect influences social attention captured via mobile eye-tracking during dyadic play in young children. Poster presented at the Flux Congress on Integrative Developmental Neuroscience, Virtual.
- Gunther, K. E.**, Werchan, D. M., Anaya, B., Vallorani, A., Pérez-Edgar, K., & Amso, D. (2020, July). Maternal buffering of attentional and neural responses to emotionally valenced stimuli in infancy. Poster accepted to the International Congress of Infant Studies, Glasgow, Scotland.
- Vallorani, A., **Gunther K. E.**, Burris, J. L., Buss, K. A., LoBue, V., & Pérez-Edgar, K. (2020, July). Modeling individual differences in developmental trajectories of orienting to emotional stimuli from 4- to 24-months. Poster accepted to the biannual meeting of The International Congress of Infant Studies, Glasgow, Scotland.
- Anaya, B., **Gunther, K. E.**, Licata, S. A., & Pérez-Edgar, K. (2019, October). EEG Coherence, Behavioral Inhibition, and Risk for Anxiety in Early Adolescence. Poster presented at the International Society of Developmental Psychobiology, Chicago, IL.

- Gunther, K. E.**, Fu, X., MacNeill, L. A., Ermanni, B., Buss, K. A., & Pérez-Edgar, K. (2019, August). Mapping Visual Attention to Levels of Inhibitory Control; A Mobile Eye Tracking Investigation. Poster presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, New York, NY.
- Vallorani, A., Brown, K. M., Fu, X., **Gunther, K.**, MacNeill, L. A., Ermanni, B., Buss, K. A., & Pérez-Edgar, K. (2019, August). Naturalistic social attention across a dynamic social interaction. Poster presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, New York, NY.
- Lynn, A., Govindarajan, L. N., Gupta, P., Baumgartner, H., **Gunther, K.**, Placido, D., ... Amso, D. (2019, August). Discovering Developmental Mechanisms of Memory-Guided Attention Using Computer Vision. Poster presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, New York, NY.
- Gunther, K. E.**, Fu, X., MacNeill, L. A., Ermanni, B., Buss, K. A., & Pérez-Edgar, K. (2019, March). Low Naturalistic Attention Shifting as a Risk Factor for Internalizing Symptoms in Behaviorally Inhibited Children. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD. **2019 Travel Award Recipient.**
- VanKeuren, L. J.** , **Gunther, K.**, Fu, X., MacNeill, L. A., & Pérez-Edgar, K. (2019, March). Naturalistic Attention Biases to Social Threat Characterize Socially Withdrawn Children. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Ermanni, B., **Gunther, K.**, Fu, X., Vallorani, A., MacNeill, L. A., & Pérez-Edgar, K. (2019, March). Moderating Effect of Effortful Control on the Relation between Happy Biases and Externalizing Symptoms. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Youatt, E., Vallorani, A., Morales, S., MacNeill, L. A., **Gunther, K.**, & Pérez-Edgar, K. (2019, March). High Levels of Behavioral Inhibition and Inhibitory Control Relate to Affective Responses to Peer Feedback in Young Children. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD. **2019 Student and Early Career Council Poster Competition nominee.**
- Gunther, K. E.**, Fu, X., Ermanni, B., & Pérez-Edgar, K. (2018, August). Naturalistic measures of sustained attention moderate the relation between behavioral inhibition and internalizing symptoms in kindergarteners. Poster presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, Berlin, Germany.

- Gunther, K. E.**, MacNeill, L. A., Burris, J. L., LoBue, V., Buss, K. A., & Pérez-Edgar, K. (2018, June). Patterns of Maternal Threat Bias Moderate the Association between Household Chaos and Infant Regulation. Poster presented at the International Congress of Infant Studies, Philadelphia, PA.
- MacNeill, L. A., Burris, J. L., **Gunther, K. E.**, Pérez-Edgar, K., Buss, K. A., & LoBue, V. (2018, June). Attention Bias in Context: Profiles of Family Emotional Climate Contribute to Infant Temperament and Attention to Threat. Poster presented at the International Congress of Infant Studies, Philadelphia, PA.
- Novick, A. M., Werchan, D. M., Amso, D., Parade, S. H., Ackerman, L, **Gunther, K.**, Seifer, R., Philip, N. S., & Tyrka, A. R. (2018, May). Cognitive and Affective Function in School-Aged Children Experiencing Trauma and Adversity. Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry, New York, NY.
- Werchan, D.M., **Gunther, K.**, & Amso, D. (2017, September). 9-Month-Old Infants Use Higher-Order Contexts to Support Working Memory in the A-Not-B Task. Poster presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, Portland, OR.
- Freier, L., **Gunther, K.**, Gupta, P., Silver, B., Badre, D., & Amso, D. (2017, April). 3- to 7-year-olds' use of working memory gating strategies in a naturalistic task. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Werchan, D. M., **Gunther, K.**, & Amso, D. (2017, April). 9-Month-Old Infants use Contextual Cues to Support Working Memory in the A-Not-B Task. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Gunther, K. E.**, Markant, J., Martino, R., & Amso, D. (2016, May). The Relation Between Attention Orienting in Infancy and Executive Functions in Early Childhood. Poster presented at the International Conference on Infant Studies, New Orleans, LA.
- Gunther, K. E.**, Haas, S. A., Bocchino, E., Gordon, L., & Fox, N. A. (2015, March). The Effects of Threat Ambiguity on Visual Search Performance in Children as a Function of Social Anxiety. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

Gunther, K. (2014, April). The Effect of Moderate and Severe Hypoglycemia on Anxiety-like Behaviors in Sprague-Dawley Rats. Poster presented at Maryland Undergraduate Research Day, College Park, MD.

Frankel, J., **Gunther, K.**, Matthews, L., Plakkot, S., Ser, E., Shapiro, M., Shaw, A., Weng, P., Wilkin, D., & Xu, L. (2014, April). The Effects of Insulin-Induced Moderate Hypoglycemia on Hippocampal Plasticity. Poster presented at Maryland Undergraduate Research Day, College Park, MD.

Awards & Honors

ISDP Postdoc Travel Award \$500	July 2023
Susan Nolen-Hoeksema Postdoctoral Fellowship	August 2022
ISDP Student Travel Award \$250	November 2021
National Science Foundation Graduate Research Fellowship	2019-2022
SRCD Graduate Student Travel Award \$300	March 2019
Graduate Scholar Award \$3600	Summer 2019
Robert and Ruth Faris Child Psychology Graduate Scholar Award \$3600	Summer 2018
Maryland Summer Scholars grant recipient \$3000	Summer 2013
Howard Hughes Medical Institute Undergraduate Research support \$4000	2013-2015

Review Experience

Editorial Board Member

Infant and Child Development, 2023-

Ad-Hoc Journal Reviews

Development and Psychopathology

Current Psychology

Quarterly Journal of Experimental Psychology

Nature Mental Health

Developmental Psychology

Child Neuropsychology

Research on Child and Adolescent Psychopathology

Nature Scientific Reports

Infant and Child Development

Brain Imaging and Behavior

Ad-Hoc Journal Co-Reviews

Developmental Psychology

Biological Psychiatry

PLOS ONE

The Journal of Child Psychology and Psychiatry

Conference Submissions

Society for Research in Child Development Biennial Meeting (2023)

Other Related Experience

Consulting

- Memo on interactions between early life adversity and brain/behavioral development, Massachusetts Parole Board. December 2021.

Teaching

- Graduate Teaching Assistant, topics including
 - Developmental Psychology
 - Psychology of Human Emotion
 - Social Psychology of Interpersonal/Intergroup Relationships
 - Psychology of a Sustainable World
 - Senior Seminar on Conspiracy Theories

August 2017-May 2018
The Pennsylvania State University
- Guest lecture on Relationship Cognition, Social Psychology of Interpersonal/Intergroup Relationships
February 2018
The Pennsylvania State University
- Guest lecture on emotional development, Developmental Psychology
October 2018
The Pennsylvania State University
- Guest lecture on fear and anxiety, Psychology of Human Emotion
September 2018
The Pennsylvania State University
- Undergraduate Teaching Assistant, Social Psychology
September 2013-May 2014
Supervisor: Dr. Dylan Selterman, University of Maryland
- Tutor, Academic Support & Career Development Unit
September 2013-May 2015
Supervisors: Sharon Staples, Courtney Hamilton, University of Maryland
- Grader, Social Psychology Laboratory
May 2014
Supervisor: Dr. Dylan Selterman, University of Maryland

Outreach

- NextGen Psych Scholars volunteer – one-on-one mentoring for underrepresented minorities interested in a Psychology Ph.D.: Fall 2023

- Sneak Peek program volunteer – reviewing application materials for underrepresented minorities interested in a Psychology Ph.D.: Fall 2022
Yale University
- Application Statement Feedback Program (ASFP) volunteer – provided feedback on graduate school personal statements: Fall 2022
- Community outreach chair, AXONS student neuroscience society: October 2018-August 2022
The Pennsylvania State University
- Volunteer, Brain Awareness Week: March 2019
The Pennsylvania State University
- Volunteer, Exploration-U: March 2018, February 2019
The Pennsylvania State University
- Volunteer, ENVISION STEM Career Day for Young Women: January 2018, January 2019, February 2020
The Pennsylvania State University
- Judge, Psi Chi Undergraduate Spring Research Conference: April 2018
The Pennsylvania State University
- Volunteer, Brown Brain Fair: March 2017
Brown University
- Volunteer, Neuroscience and Cognitive Science booth at Maryland Day: April 2014
University of Maryland

Professional Memberships

International Society for Developmental Psychobiology	June 2021-present
Society for Research in Child Development	January 2019-present
Flux Society	May 2018-present
International Congress of Infant Studies	January 2018-present
Psi Chi Psychology Honor Society	Fall 2013-present