Xiaoxue (Jessie) Fu

Department of Psychology University of South Carolina Institute for Mind and Brain 1800 Gervais Street, Columbia SC, 29201 Email: <u>xiaoxuef@mailbox.sc.edu</u> 🐲 ASCENT Lab

- <u>Google Scholor</u>
- **O** <u>GitHub</u>
- OSF
- ORCiD

EDUCATION

2012–2018 Ph.D. Developmental Psychology The Pennsylvania State University Advisors: Koraly Pérez-Edgar, Kristin Buss Dissertation: Threat-related attention in socioemotional development: A multimodal eye tracking approach to examine stationary and ambulatory attention

 2009–2010 MSc. Psychological Research University of Oxford Advisor: Jennifer Lau Thesis: Elevated anxiety induced by predictable but not unpredictable aversive stimuli in individuals with high trait anxiety: Evidence from a novel fear-conditioning paradigm

2006–2009 **BSc. Experimental Psychology** University of Bristol Advisor: Christopher Jarrold Thesis: Exploring the nature of rehearsal in children above the age of seven: Evidence from a complex span task

ACADEMIC POSITION

- 2023 Assistant Professor Department of Psychology University of South Carolina
- 2021 2023 **Research Assistant Professor** Department of Psychology University of South Carolina
- 2020–2021 **Postdoctoral Fellow** University of South Carolina Advisor: John Richards
- 2018–2019 **Postdoctoral Fellow** Nationwide Children's Hospital Advisor: Eric Nelson

Clinical Instructor

2018-2019

	The Ohio State University
	EXTERNAL GRANTS
2024-2026	Current: <i>Early Predictors of Infant-Parent Coordinated Attention and Word Learning in Preterm and</i> <i>Full-Term Infants.</i> NICHD, R21 HD113861 Principal Investigator: Xiaoxue Fu Role: Principal Investigator
2024-	Pending: <i>Multimodal Characterization of Attention in Early Childhood Autism Spectrum Disorder.</i> NIMH, R21 MH141584 Principal Investigators: Christian O'Reilly, Xiaoxue Fu Role: Principal Investigator
2024-	Note: Frincipal investigator Development of Advanced Tools for the Study of Neurodevelopment and Neurodevelopmental Disorders NIMH, R50 Principal Investigator: Samuel Harding Role: Sponsor
2016-2018	Completed: Mobile Eye-tracking as a Tool for Studying Socioemotional Development: Threat-related Attention in a Social Context. NIMH, R21 MH111980 Principal Investigators: Koraly Pérez-Edgar Role: Graduate Assistant
2023	Not Funded: Dyadic Biobehavioral Mechanisms Underlying Mother-to-Child Transmission of Depression Risk. Brain & Behavior Research Foundation Young Investigator Grant
2020	Principal Investigator: Xiaoxue Fu Identifying Neural Correlates of Attention that Impact Socioemotional Development in Very Preterm Children. NICHD, K99/R00 Principal Investigator: Xiaoxue Fu
	INTRAMURAL GRANTS

Current:

2024-2025 A Multimodal Approach to Early Identification of Attention Functions in Autism Spectrum Disorder ASPIRE

	Total Costs: \$15,000
	Principal Investigator: Xiaoxue Fu
	Role: Principal Investigator
2024-2025	Attention Patterns Linked to Risk for Anxiety in Young Children: An In-depth Eye-tracking
	Investigation
	Magellan Scholar
	Total Costs: \$2,500
	Principal Investigator: Madelyn Faircloth
	Role: Mentor
	Pending:
2024-	The Impact of Mindful Walking on Neural Correlates of Executive Function in SC Older Adults
	at risk of Alzheimer's and Dementias (recommended for funding)
	CLINTRUSC Pilot and Developmental Research Project Program
	Total Costs: \$200,000
	Principal Investigators: Chih-Hsiang Yang, Xiaoxue Fu
	Role: Principal Investigator
2024-	Characterizing the Micro Context and Its Impact on Language Development in Preterm and
	Full-Term Infants
	CAN Research Pilot Grant
	Total Costs: \$40,000
	Principal Investigator: Xiaoxue Fu
	Role: Principal Investigator

Completed:

2022-2023 Model-driven Analysis of Autonomic Control in ASD using ECG.
 CAN Research Pilot Grant
 \$40,000
 Principal Investigator: Christian O'Reilly
 Role: Co-Principal Investigator

PUBLICATIONS

- Fu, X., Franchak, J.M., MacNeill, L., Gunther, K.E., Borjon, J.I., Yurkovic-Harding, J., Harding, S., Bradshaw, J., Pérez-Edgar, K.E. (2024). Implementing mobile eye tracking in psychological research: A practical guide. *Behavior Research Methods*, 56, 8269-8288. <u>https://doi.org/10.3758/s13428-024-02473-6</u>
- Fu, X., Bolton, S.H., Morningstar, M., Mattson, W.I., Feng, X., Nelson, E.E. (2024). Young Children of Mothers with a History of Depression Show Attention Bias to Sad Faces: An Eye-tracking Study. *Research on Child and Adolescent Psychopathology*, 52, 1469-1483. <u>https://doi.org/10.1007/s10802-024-01205-w</u>
- *3.* **Fu, X.**, Platt, E., Shic, F., Bradshaw, J. (2024). Infant Social Attention Associated with Elevated Likelihood for Autism Spectrum Disorder: A Multi-Method Comparison. *Journal of Autism and Developmental Disorders*, 1-13. <u>https://doi.org/10.1007/s10803-024-</u>

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- Ilyaz E., Feng, X., Fu, X., Nelson, E.E., Morningstar, M. (2024). Vocal Emotional Expression in Mothers with and without a History of Major Depressive Disorder. *Journal of Nonverbal Behavior*, 48, 513-537. <u>https://doi.org/10.1007/s10919-024-00462-z</u>
- *5.* Bradshaw, J., **Fu**, **X.**, Richards, J.E. (2024). Infant Sustained Attention Differs by Context and Social Content in the First Two Years of Life. *Developmental Science*, 27, e13500. <u>https://doi.org/10.1111/desc.13500</u>
- 6. Gunther, K.E., **Fu**, **X.**, MacNeill, L.A., Jones, M., Ermanni, B., Pérez-Edgar, K.E. (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
- Bradshaw, J., Fu, X., Yurkovic-Harding J., Abney, D. (2023). Infant Embodied Attention in Context: Feasibility of Home-Based Head-Mounted Eye Tracking in Early Infancy. *Developmental Cognitive Neuroscience*, 64. <u>https://doi.org/10.1016/j.dcn.2023.101299</u>
- 8. Vallorani, A., Brown, K.M., **Fu, X.,** Gunther, K.E., MacNeill, L.A., Ermanni, B., Hallquist, M.N., Pérez-Edgar, K.E. (2022). Relations between Social Attention, Expressed Positive Affect and Behavioral Inhibition during Play. *Developmental Psychology*, 58(11), 2036-2048. https://doi.org/10.1037/dev0001412
- Zhou, A.M., Austen, T., Vallorani, A., Fu, X., Buss, K.A. (2022). Are Fearful Boys at Higher Risk for Anxiety? Person-centered Profiles of Toddler Fearful Behavior Predict Anxious Behaviors at Age 6. *Frontiers in Psychology 13*. <u>https://www.frontiersin.org/articles/10.3389/fpsyg.2022.911913</u>
- Grannis, C., Hung, A., French, R.C., Mattson, W.I., Fu, X., Hoskinson, K., Taylor, H.G., Nelson, E.E (2022). Multimodal Classification of Extremely Preterm and Term Adolescents Using the Fusiform Gyrus: A Machine Learning Approach. *NeuroImage: Clinical* 35. <u>https://doi.org/10.1016/j.nicl.2022.103078</u>
- 11. **Fu, X.**, & Richards, J.E. (2022). Age-related Changes in Diffuse Optical Tomography Sensitivity Profiles from Childhood to Adulthood. *Journal of Biomedical Optics*, 27(8). <u>https://doi.org/10.1117/1.JB0.27.8.083004</u>
- Fu, X., & Richards, J.E. (2022). Evaluating Head Models for Cortical Source Localization of the Face-Sensitive N290 Component in Infants. *Brain Topography*, 35, 398-415. <u>https://doi.org/10.1007/s10548-022-00899-9</u>
- Fu, X., Hung, A., DeSilva, A., Tyler, B., Mattson, W.I., Hoskinson, K., Taylor, H.G., Nelson, E.E. (2022). Development of the Mentalizing Network Structures and Theory of Mind in Extremely Preterm Youth. *Social Cognitive and Affective Neuroscience*, 17(11), 977-985. <u>https://doi.org/10.1093/scan/nsac027</u>

- 14. Gunther, K.E., **Fu**, **X.**, MacNeill, L.A., Vallorani, A., Ermanni B., Pérez-Edgar, K.E. (2022). 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. <u>https://doi.org/10.1007/s10802-021-00881-2</u>
- Wright, A.D., Patel, R.M., Fu, X., Brown, K., Adhikary, S.D., Pérez-Edgar, K.E., Zurca, A.D. (2022). Eye-tracking technology to determine procedural proficiency in ultrasoundguided regional anesthesia. *The Journal of Education in Perioperative Medicine*, 24(1). <u>https://doi.org/10.46374/volxxiv issue1 zurca</u>
- MacNeill, L.A., Fu, X., Buss, K.A., Pérez-Edgar, K.E. (2022). Do you see what I mean?: Using mobile eye-tracking to capture parent-child dynamics in the context of anxiety risk. *Development and Psychopathology*, 34(3) 997-1012. <u>https://doi.org/10.1017/S0954579420001601</u>
- Fu, X., & Richards, J.E. (2021). devfOLD: A Toolbox for Designing Age-Specific fNIRS Channel Placement. *Neurophotonics*. 8(4) 045003. <u>https://doi.org/10.1117/1.NPh.8.4.045003</u>
- Gunther, K.E., Brown K.M., Fu, X., MacNeill, L.A., Jones, M., Ermanni, B., Pérez-Edgar, K.E. (2021). Mobile Eye Tracking Captures Changes in Attention Over Time During a Naturalistic Threat Paradigm in Behaviorally Inhibited Children. *Affective Science*, 2, 495-505. <u>https://doi.org/10.1007/s42761-021-00077-3</u>
- Fu, X., & Richards, J.E. (2021). Investigating developmental changes in scalp-cortex correspondence using diffuse optical tomography sensitivity in infancy. *Neurophotonics*. 8(3) 035003. <u>https://doi.org/10.1117/1.NPh.8.3.035003</u>
- 20. **Fu, X.**, & Richards, J.E. (2021). Age-related changes in diffuse optical tomography sensitivity profiles in infancy. *PLoS ONE 16(6)*: e0252036. https://doi.org/10.1371/journal.pone. 0252036
- 21. Vallorani, A., **Fu, X.,** Morales, S., LoBue, V., Buss, K.A., Pérez-Edgar, K.E. (2021). Variableand person-centered approaches to affect-biased attention in infancy reveal unique relations with infant negative affect and maternal anxiety. *Scientific Reports 11*, 1719. <u>https://doi.org/10.1038/s41598-021-81119-5</u>
- 22. Pérez-Edgar, K.E., MacNeill, L.A., **Fu, X.** (2020). Navigating through the experienced environment: Insights from mobile eye-tracking. *Current Directions in Psychological Science*, 29(3), 286-292. <u>https://doi.org/10.1117/0963721420915880</u>
- 23. **Fu**, **X.**, Morales, S., LoBue, V., Buss, K.A., Pérez-Edgar, K.E. (2020). Temperament moderates developmental changes in vigilance to emotional faces in infants: Evidence from an eye-tracking study. *Developmental Psychobiology*, 62(3), 339-352. <u>https://doi.org/10.1002/dev.21920</u>
- 24. **Fu, X.,** Nelson, E.E., Borge, M., Buss, K.A., Pérez-Edgar, K.E. (2019). Stationary and ambulatory attention patterns are differentially associated with early temperamental risk

for socioemotional problems: Preliminary evidence from a multimodal eye-tracking investigation. *Development and Psychopathology*, 31, 971-988. <u>https://doi.org/10.1017/S0954579419000427</u>

- 25. **Fu, X.,** & Pérez-Edgar, K.E. (2019). Threat-related attention bias in socioemotional development: A critical review and methodological considerations. *Developmental Review, 51,* 31-57. <u>https://doi.org/10.1016/j.dr.2018.11.002</u>
- 26. Liu, P., Taber-Thomas, B.C., **Fu, X.,** Pérez-Edgar, K.E. (2018). Biobehavioral markers of attention bias modification in temperamental risk for anxiety: A randomized control trial. *Journal of the American Academy of Child and Psychiatry*, *57*, 103-110. https://doi.org/10.1016/j.jaac.2017.11.016
- 27. **Fu**, **X**., Taber-Thomas, B.C., Pérez-Edgar, K.E. (2017). Frontolimbic functioning during threat-related attention: Relations to early behavioral inhibition and anxiety in children. *Biological Psychology*, *122*, 98-109. <u>https://doi.org/10.1016/j.biopsycho.2015.08.010</u>
- 28. Morales, S., **Fu, X.**, Pérez-Edgar, K.E. (2016). A developmental neuroscience perspective on affect-biased attention. *Developmental Cognitive Neuroscience*, *21*, 26-41. <u>https://doi.org/10.1016/j.dcn.2016.08.001</u>
- 29. **Fu, X.,** & Pérez-Edgar, K.E. (2015). Theories of temperament development. In J. D. Wright (Eds.). *International Encyclopedia of Social & Behavioral Sciences, 2nd Edition, Vol. 24,* Oxford, Elsevier, 191-198.
- Fu, X., Du, Y., Au, S., Lau, J.Y.F. (2015). Single-session cognitive bias modification of interpretations training in high-anxious adolescents. *Journal of Cognitive Psychotherapy*, 29 (3), 253-272. <u>https://doi.org/10.1891/0889-8391.29.3.253</u>
- 31. **Fu**, **X**., Du, Y., Au, S., Lau, J.Y.F. (2013). Reducing negative interpretations in adolescents with anxiety disorders: A preliminary study investigating the effects of a single session of cognitive bias modification training. *Developmental Cognitive Neuroscience*, *4*, 29-37. <u>https://doi.org/10.1016/j.dcn.2012.11.003</u>

PUBLICATIONS IN PROGRESS

- + Student Mentee
- 1. Aktar, E., Nikolić, M., **Fu, X.,** Westenberg, M., Pérez-Edgar, K.E. (invited revision). Do maternal and paternal social trait anxiety explain individual differences in offspring stress reactions during a social performance task?
- 2. Bradshaw, J., Platt, E., Yurkvic-Harding, J., Harding, S., **Fu**, **X**. (under review) Autonomic and Attentional Pathways in the Emergence of Autism: Bridging Mechanisms and Real-World Contexts in Infancy. *Advances in Child Development and Behavior*.
- 3. Cortez, K.B⁺., **Fu**, **X**., Roberts, J.E. (in prep). Temperament variability in autism spectrum disorder: insights from behavioral observations.

- 4. **Fu, X.,** Mattson, W.I., Morningstar, M., Pirazzoli, L., Feng, X., Nelson, E.E. (in prep). Maternal depression impacts children's responses to mothers' voices: an fNIRS Study.
- 5. **Fu, X.**, Yurkovic-Harding, Bradshaw, J. (in prep). Risk for autism impacts infant-parent coordinated visual attention: A head-mounted eye-tracking study.
- 6. **Fu, X.,** Richards, J.E. (in prep). Enhancing Cortical Localization of fNIRS Data in Infants and Children: A Methodological Review.
- 7. **Fu, X.,** Kiel, E.J., Davis, E.L., Buss, K.A. (in prep). Dysregulated fear temperament profile is linked to elevated cortisol reactivity: The impacts of maternal personality and child social inhibition.

PAPER PRESENTATIONS

Fu, X., Yurkovic-Harding, J., Bradshaw, J. *Infant-Caregiver Coordinated Visual Attention in Early Infancy: An Investigation Using Home-based Head-mounted Eye tracking.* (2024, July). Paper presented at the International Congress of Infant Studies, Glasgow, Scotland.

Pérez-Edgar, K.E. Gunther, K.E., Vallorani, A., MacNeill, L.A., **Fu, X.** *Using Mobile Eye-tracking to Capture Attention and Social Behavior In-the-Moment* (2021, November). Paper presented at the Annual Meeting of the International Society of Developmental Psychobiology, Chicago, Chicago.

Fu, X., Richards, J.E. (2021, April). *Baby fOLD: An Age-specific Toolbox for Optimizing fNIRS Channel Arrangement in Developmental Samples.* Flash talk presented at the biennial meeting of the Society for Research in Child Development, Virtual.

Fu, X., Mattson, W.I., Morningstar, M., Blei, H., Sullivan, S., Keim, S., Klebanoff, M., Nelson, E.E. (2019, October). *Prenatal Marijuana Exposure: Effects on Brain Morphology and Executive Functions in Young Children.* Paper presented at the Annual Meeting of the International Society of Developmental Psychobiology, Chicago, Chicago. Chair of symposium *Substance Use during Pregnancy: Impact on Behavioral and Neurocognitive Development of Offspring from Infancy to Adulthood.*

Fu, X., MacNeill, L.A., Buss, K.A., Pérez-Edgar, K.E. (2019, March). *Affect-biased Attention is Linked to Individual Differences in Social Withdrawal: A Multimodal Eye-tracking Investigation.* Paper presented at the biennial meeting of the Society for Research in Child Development, Baltimore, Maryland. Co-Chairs (with Leigha MacNeill) of symposium Using a Social-Interactive Neuroscience Approach to Study Cognitive Processes Underlying Risk for Developmental Psychopathology.

MacNeill, L.A., **Fu, X.,** Buss, K.A., Pérez-Edgar, K.E. (2019, March). *Using Mobile-Eye-Tracking Methodology to Capture Parent-Child Dynamics in the Context of Anxiety Risk.* Paper presented at the biennial meeting of the Society for Research in Child Development, Baltimore, Maryland. Co-Chairs (with Xiaoxue Fu) of symposium *Using a Social-Interactive Neuroscience Approach to Study Cognitive Processes Underlying Risk for Developmental Psychopathology.* Gunther, K.E., **Fu, X.,** MacNeill, L.A., Ermanni, B., Vallorani, A., Buss, K.A., Pérez-Edgar, K.E. (2019, March). *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, Maryland.

Vallorani, A., Brown, K., **Fu, X.,** Gunther, K., MacNeill, L.A., Ermanni, B., Buss, K.A., Pérez-Edgar, K.E. (2019, March). *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, Maryland.

Vallorani, A., **Fu, X.,** Morales, S., LoBue, V., Buss, K.A., Pérez-Edgar, K.E. (2018, July). *Development of affect-biased attention: Mediation by negative affect and moderation by maternal anxiety*. Paper presented at the International Congress of Infant Studies, Philadelphia, Pennsylvania.

Pérez-Edgar, K.E., **Fu, X.,** & Liu, P. (2018, May). *The Biological Underpinnings of Attention Mechanisms in Temperament*. Paper presented at The Occasional Temperament Conference, Murcia, Spain.

Fu, X., Galinsky, P., Pérez-Edgar, K.E. (2017, April). *Using Mobile Eye-tracking Measures of Attention to Examine Contexts that Evoke Social Wariness and Peer Cooperation*. (Chair: **Fu, X.**). Paper presented at the biennial meeting of the Society for Research in Child Development, Austin, Texas.

Pérez-Edgar, K.E., Morales, S., Thai, N., Auday, E., **Fu, X.,** Taber-Thomas, B.C. (2016, November). *Parameters of Attention Biases to Threat in Pediatric Anxiety.* Paper presented at the International Society of Developmental Psychobiology, San Diego, California.

Pérez-Edgar, K.E., Morales, S., Thai, N., Auday, E., **Fu, X.,** Taber-Thomas, B.C. (2016, October). *Neural Substrates of Attention Biases to Threat in Risk for Pediatric Anxiety.* Paper presented at the Association for Behavioral and Cognitive Therapies Annual Convention, New York, New York.

Pérez-Edgar, K.E., Taber-Thomas, B.C., **Fu, X**. (2015, April) *Attention to Threat and Neural Activation as Markers of Risk, Symptom Levels, or Both in Children at Temperamental Risk for Anxiety*. Paper presented at the Anxiety and Depression Association of America Conference, Miami, Florida.

Fu, X., Taber-Thomas, B.C., Pérez-Edgar, K.E. (2015, March). *Distinct Frontolimbic Functioning underlying Threat-related Attention Bias in Children with Behavioral Inhibition.* Paper presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, Pennsylvania.

OTHER PAPER PRESENTATIONS

Fu, X. (2024, March). *Attentional Processes Implicated in Socioemotional Development: A Multi-Method Approach*. Invited talk at the Department of Psychology Colloquium, University of Tennessee, Knoxville, TN.

Fu, X. (2024, January). *devfOLD v2.0: A Toolbox for Designing Age-Specific fNIRS Channel Placement.* Invited virtual talk at NIRx fNIRS Webinars.

Fu, X. (2023, April). Using fNIRS to Examine Voice Processing in Children with Familial Risk for Depression. Invited virtual talk at North Dakota State University, ND.

Fu, X. (2022, October). *Neurocognitive Underpinnings of Attention across Ages and Contexts*. Invited virtual talk at Peking University, Beijing, China.

Fu, X. (2021, August). *The Use of NIRS/fNIRS to Study Neurodevelopment*. Invited talk at fNIRS Journal Club, Virtual.

Fu, X. (2018, March). *Threat-related Attention in Socioemotional Development: Marking the Leap to Naturalistic Paradigms*. Invited talk at the Child Study Center, Yale University, New Haven, CT.

Fu, X., Taber-Thomas, B.C., Pérez-Edgar, K.E. (2014, June). *The Moderating Effect of Attention Control in the Association between Behavioral Inhibition and Neural Correlates of Threat Bias.* Workshop presentation at the Swiss Summer School on Cognition, Learning and Memory, Lucerne, Switzerland.

POSTER PRESENTATIONS

+ Student Mentee

Fu, X., Yurkovic-Harding, Bradshaw, J. (2025, May). *Risk for Autism Impacts Infant-parent Coordinated Visual Attention: A Head-mounted Eye-tracking Study*. Poster to be presented at the biennial meeting of the Society for Research in Child Development, Minneapolis, MN.

Cortez, K.B.⁺, Hantman, R.M., Hunt, E.A., Petee, H., Serang, S., Hogan, A.L., Arnold, H.P., **Fu, X.**, Roberts, J.E. (2025, April). *Distinct Pathways to Anxiety: Early Behavioral Inhibition and Social Anxiety in Syndromic and Idiopathic Autism*. Poster to be presented at the annual International Society for Autism Research, Seattle, WA.

Fu, X., Morningstar, M., Mattson, W.I., Pirazzoli, L. Feng, X., Nelson, E.E. (2023, September). *Maternal Depression Impacts Children's Responses to Mothers' Voices: An fNIRS Study*. Poster presented at the annual Flux Congress, Santa Rosa, CA.

McLaughlin, E.⁺, Federico, A., Wenzel, A., **Fu, X**., Bradshaw, J. (2023, May). The Impact of Motor Development on Mobile Eye-tracking in Young Infants: An Initial Feasibility Study. Poster presented at the annual International Society for Autism Research, Stockholm, Sweden.

Fu, X., Morningstar, M., Mattson, W.I., Crowell S., Feng, X., Nelson, E.E. (2023, March). *Children with Familial Risk for Depression Show Differential Neural Responses to Mothers' and Strangers'*

Voices. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, UT.

Fu, X., Richards, J.E. (2022, October). *Age-related Changes in Diffuse Optical Tomography Sensitivity Profiles from Infancy to Adulthood*. Poster presented at the Society of fNIRS Conference, Boston, MA.

Fu, X., Platt, E., Shic, F., Bradshaw, J. (2022, July). *Capturing the Developmental Changes in Attention Associated with High Risk for Autism Spectrum Disorder: A Multi-Method Approach.* Poster presented at the International Congress of Infant Studies, Ottawa, Canada.

Fu, X., Richards, J.E. (2021, October). *devfOLD: A Toolbox for Designing Age-Specific fNIRS Channel Placement.* Poster presented at the Society of fNIRS Conference, Virtual.

Fu, X., Crowell, S., Morningstar, M., Mattson, W.I., Feng, X., Nelson, E.E. (2021, November). *The Influence of Maternal Depression on fNIRS Neural Responses to Mothers' Voice in Young Children.* Poster presented at the International Society of Developmental Psychobiology, Chicago, IL.

Crowell, S., Grannis, C., Hung, A., French, R., Kuperberg, D., Guha, I., Mattson W.I., Morningstar, M., **Fu, X.**, Feng, X., Nelson, E. (2021, November). *Young children of mothers with a history of depression display attention bias toward sad faces.* Poster presented at the International Society for Developmental Psychobiology, Chicago, IL.

Gunther, K.E., **Fu**, **X.**, MacNeill, L.A., Jones, M., Ermanni, B., Pérez-Edgar, K.E. (2021, Novemeber). *Eye Blink Rate Modulated by Interaction of Wait Times, Inhibitory Control, and Internalizing Behaviors in a Jenga-like Task.* Poster presented at the International Society of Developmental Psychobiology, Chicago, IL.

Fu, X., Richards, J.E. (2021, April). *Age-related Changes in Diffuse Optical Tomography Sensitivity to the Cortex in Infancy.* Paper presented at the biennial meeting of the Society for Research in Child Development, Virtual.

Fu, X., Morningstar, M., Mattson, W.I., Feng, X., Nelson, E.E. (2020, October). *Using fNIRS to Study the Role of Neural Responses to Mothers' Voice in Intergenerational Transmission of Depression.* Poster presented at the International Society of Developmental Psychobiology, Virtual.

Vallorani, A., Brown, K. M., **Fu, X.,** Gunther, K., MacNeill, L. A., Ermanni, B., Hallquist, M.N., & Pérez-Edgar, K. (2020, September). *Affect Influences Social Attention Captured via Mobile Eyetracking during Dyadic Play in Young Children*. Poster presented at the annual Flux Congress, Virtual.

Fu, X., Mattson, W.I., Pine, J.G., Aryanne D.S., Taylor, H.G., Nelson, E.E. (2019, November). *Neural Correlates of Reinforcement Learning in Adolescents: The Impact of Very Preterm Birth.* Poster presented at the Developmental Affective Neuroscience Symposium, Pittsburgh, PA.

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 annual Flux Congress, New York, NY.

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.

Fu, X., Mattson, W.I., Morningstar, M., Blei, H., Alexis, D., Keim, S., Klebanoff, M., Nelson, E.E. (2019, May). *Neural Activation underlying Executive Function in Young Children with Prenatal Marijuana Exposure and Unexposed Controls*. Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Miami Beach, Florida.

Fu, X., Morales, S., Lobue, V., Buss, K.A., Pérez-Edgar, K.E. (2019, March). *Age and Temperament Moderate Attentional Vigilance to Faces in Infants: Evidence from an Eyetracking Study.* Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, Maryland.

Gunther, K., **Fu, X.,** MacNeill, L., Ermanni, B., Buss, K.A., Pérez-Edgar, K.E. (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, Maryland.

Ermanni, B., Gunther, K., **Fu, X.,** Vallorani, A., MacNeill, L., Pérez-Edgar, K.E. (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, Maryland.

Vankeuren, L.*, Gunther, K., **Fu, X.,** MacNeill, L., Pérez-Edgar, K.E. (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, Maryland.

Vallorani, A. **Fu, X.,** Ram, N., Buss, K.A. (2019, March). *Person-centered Infant Temperament Profiles and Infant Prosocial Behaviors with Peers Predict Childhood Social Engagement*. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, Maryland.

Taber-Thomas, B.C., **Fu**, **X.**, Auday, E., Pérez-Edgar, K.E. (2018, November). *Functional Connectivity during Stimulus-driven and Goal-directed Threat Processing in Childhood Risk for Anxiety*. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA.

Fu, X., Mattson, W.I., Morningstar, M., Blei, H., Alexis, D., Keim, S., Klebanoff, M., Nelson, E.E. (2018, November). *Neural Activation underlying Executive Function in Young Children with Prenatal Marijuana Exposure and Unexposed Controls*. Poster presented at the Annual Research Retreat, The Research Institute at Nationwide Children's Hospital, Columbus, OH.

Gunther, K., **Fu, X.,** Ermanni, B., Pérez-Edgar, K.E. (2018, August). *Naturalistic Measures of Sustained Attention Moderate the Relation between Behavioral Inhibition and Internalizing Symptoms in Kindergarteners*. Poster presented at Flux: The Society for Developmental Cognitive Neuroscience, Berlin, Germany.

Fu, X., Vallorani, A. Kiel, E.J., Davis, E.L., Buss, K.A. (2017, November). *Dysregulated Fear Temperament Profile is Linked to Elevated Cortisol Reactivity: The Impacts of Maternal Personality and Child Social Withdrawal*. Poster presented at the International Society of Developmental Psychobiology, Washington, D.C.

Vallorani, A., **Fu, X.**, Gilsenan, K., Buss, K.A. (2017, November). *Blunted Cortisol Levels and Dysregulated Fear Relate to Reduced Social Approach in Toddlers.* Poster presented at the Annual Meeting of the International Society of Developmental Psychobiology, Washington, D.C.

Fu, X., Brown, K.M., Morales, S., LoBue, V., Buss, K.A., Pérez-Edgar, K.E. (2017, April). *Temperament Moderates Vigilance to Emotional Faces in Infants: Evidence from an Eye Tracking Study.* Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, Texas.

Fu, X., Brown, K.M., LoBue, V., Buss, K.A., Pérez-Edgar, K.E. (2016, May). *Effortful Control Moderates the Link between Negative Affect and Vigilance to Threat only after the First Year of Life*. Poster presented at the International Congress of Infant Studies, New Orleans, Louisiana.

Gilmore, A., Taber-Thomas, B.C., Auday, E., **Fu, X.**, Pérez-Edgar, K.E. (2015, October). *Neural Responses to Masked and Unmasked Threat Faces in Children at Risk for Anxiety.* Poster presented at the Society for Neuroscience Annual Meeting, Chicago, Illinois.

Fu, X., Buss, K.A. (2015, September). *Dysregulated Fear Predicts Elevated Cortisol Reactivity through Social Withdrawal only in Children with High Approach Mothers.* Poster presented at the Society for Psychophysiological Research Conference, Seattle, Washington.

Choi, J.H.*, **Fu**, **X.**, Galinsky, P., Pérez-Edgar, K.E. (2015, March). *The Roles of Expressive and Receptive Language Abilities in Moderating the Link between Behavioral Inhibition and Social Phobia*. Poster presented at the Society for Research in Child Development Biennial Meeting, Philadelphia, Pennsylvania.

Fu, X., & Buss, K.A. (2015, March). *Dysregulated Fear Profile Predicts an Interactive Effect of Cortisol Reactivity and Environmental Load on Social Withdrawal*. Poster presented at the Society for Research in Child Development Biennial Meeting, Philadelphia, Pennsylvania.

Galinsky, P., Taber-Thomas, B.C., Allen, E.K., Brown, K., **Fu**, **X.**, Pérez-Edgar, K.E. (2015, March). *Infant Temperamental Variation in Arousal during Emotion-face Processing Assessed with Pupilometry.* Poster presented at the Society for Research in Child Development Biennial Meeting, Philadelphia, Pennsylvania.

Fu, X., & Buss, K.A. (2014, September). *Dysregulated Fear Predicts Differential Relations between Cortisol Activation and Internalizing Symptoms*. Poster presented at the Society for Psychophysiological Research Conference, Atlanta, Georgia.

Fu, X., Brooker, R.J., Beekman, C., Leve, L.D., Natsuaki, M.N., Shaw, D.S., Reiss, D., Neiderhiser, J.M. (2014, July). *Executive Function as a Protective Factor against Anxiety Symptoms for Genetically At-risk Children: Evidence from a Longitudinal Adoption Study*. Poster presented at the International Society for the Study of Behavioral Development Conference, Shanghai, China.

Fu, X., Auday, E., Taber-Thomas, B.C., Morales, S., Allen, E.A., Thai, N., Pfeifer, C., Danilo, C., Pérez-Edgar, K.E. (2013, April). *The Role of Attention Bias in the Link between Temperament and Socio-emotional Maladjustment*. Poster presented at the Society for Research in Child Development Biennial Meeting, Seattle, Washington.

Fu, X., Du, Y., Xu, M., Lau, J.Y.F. (2011, July). *The Effects of Cognitive Bias Modification Training on Interpretation Bias and Mood: A Study with Chinese Adolescents*. Poster presented at the International Conference on Child and Adolescent Psychopathology, London, UK.

TEACHING

	Instructor, University of South Carolina
2025 Spring	PSYC 420-006 Survey of Developmental Psychology
2024 Fall	PSYC 801 Cognitive Neuroscience I
2024 Spring	PSYC 420-006 Survey of Developmental Psychology
2024 Spring	PSYC 420-H01 Survey of Developmental Psychology
2022 Spring	DCVC 420,005 Courses of Developmental Development

2022 Spring PSYC 420-005 Survey of Developmental Psychology

Teaching Assistant, The Pennsylvania State University

 2012–2016 PSYCH 100 Introductory Psychology PSYCH 212 Introduction to Developmental Psychology PSYCH 260 Neurological Bases of Human Behavior PSYCH 268 Animal Minds PSYCH 474 Psychological Intervention in Childhood PSYCH 470 Senior Seminar on Psychopathology PSYCH 490 Emotions, Temperament and Developmental Psychopathology

MENTORING

Doctoral Degree:

CurrentKendall Nelson: Chair, Cognitive & Neural Sciences, Psychology, USC
Kaitlyn Cortez: Research Project Mentor, Clinical-Community, Psychology, USC
Alexis Federico: Committee Member, Clinical-Community, Psychology, USC
Miranda Foster: Committee Member, Clinical-Community, Psychology, USC
Emma Platt: Research Project Mentor, Clinical-Community, Psychology, USC
Halle Prine: Research Project Mentor, Exercise Science, USC

Vandana Srivasta: Committee Member, Artificial Intelligence Institute

Undergraduate Honors Thesis:

2024 <u>Madelyn Faircloth</u> (Magellan Scholar): Chair, Honors College – BARSC-MD, USC <u>Edith Violi</u> (South Carolina Honors College Research Grant recipient): Chair, Honors College – Exercise Science, USC

Undergraduate Research Training:

Current <u>Vanessa Evans</u>: Honors College – Neuroscience, USC <u>Timothy George</u> (McNair Scholar): Honors College – Public Health, USC <u>Maarya Khan</u>: Public Health, USC <u>Utkarsh Kotadiya</u>: Biological Sciences, USC <u>Lauren Lavallee</u>: Neuroscience, USC <u>Julia Wood</u> (South Carolina Honors College Research Grant recipient): Honors Collage – Public Health, USC 2023-2024 Crace Chen: Exercise Science, USC

2023-2024 <u>Grace Chen</u>: Exercise Science, USC <u>Sriya Pallapothu</u> (South Carolina Honors College Research Grant recipient): Honors College – Biological Sciences, USC

ACADEMIC AWARDS

2019 International Society for Developmental Psychobiology Postdoc Travel Award

- 2017, 2015 Society for Research in Child Development Student Travel Award
- 2013–2017 **Travel Awards**, Psychology Department and Child Study Center, The Pennsylvania State University
- 2015 Society for Psychophysiological Research Student Travel Award

PROFESSIONAL TRAINING

Propel Research Mentorship Program
 A 9-month mentoring program funded by Office of the Vice President for Research at the
 University of South Carolina. The program is designed to support and increase the success
 rate of obtaining NIH and NSF grants.

 Faculty Success Program

A 12-month online program by the National Center for Faculty Development and Diversity (NCFDD). It helps faculty members to develop the skills necessary to increase research and writing productivity.

AD-HOC REVIEWS

Grants:

Developmental Sciences Program, National Science Foundation (NSF) SPARC Graduate Research Grant Program, University of South Carolina

Journals:

Autism Research Brain Sciences **Child Development Clinical Psychological Science Cognition and Emotion Cognitive Development Depression and Anxiety Development and Psychopathology Developmental Cognitive Neuroscience Developmental Psychology Developmental Science** Infancy **Infant Behavior and Development** Journal of Anxiety Disorders Journal of Autism and Developmental Disorders Journal of Clinical Child and Adolescent Psychology Journal of Experimental Child Psychology **Neurophotonics** PLOS One

PROFESSIONAL AFFILIATIONS

- 2012- Society for Research in Child Development
- 2017- International Society for Developmental Psychobiology
- 2018- The Social and Affective Neuroscience Society
- 2019- International Congress of Infant Studies
- 2021- The Society for Functional Near Infrared Spectroscopy
- 2023- Flux: The Society for Developmental Cognitive Neuroscience
- 2023- Fetal, Infant, & Toddler Neuroimaging Group