



## Sihong Liu

Research Associate  
GSE Centers and Programs

### Bio

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#### BIO

Dr. Sihong Liu is a Social Science Research Scholar at Stanford Center on Early Childhood (SCEC) in the Graduate School of Education. Dr. Liu obtained her Ph.D. in Human Development and Family Science at the University of Georgia in 2020, and a B.S. in Statistics from Renmin University of China in 2015. Her research focuses on investigating the developmental processes of risk and resilience among children and adolescents exposed to early life stress, with the ultimate goal of directly developing intervention programs and influencing social policies

Dr. Liu adopts various research perspectives and methodologies in her research investigation. One particular research area of her work examines the underlying neurobiological mechanisms that connect early experiences to youth's behavioral outcomes, where she employs neuroimaging, electrocardiogram, and neuroendocrine stress response assessments to study the multi-level neurobiological processes. In line with the neurobiological focus, her recent work specifically examines how unpredictability in early experiences affect child socioemotional and cognitive development as well as the neural and stress response underpinnings of these effects.

Currently, Dr. Liu is also actively involved in the ongoing RAPID project, a large national survey platform that uses frequent, brief, online surveys to assess essential needs from families and child care providers and provide actionable data to key stakeholders to inform policy and program decisions. As the methodologist of the RAPID project, Dr. Liu works with partners from local communities, advocacy groups, and academic institutions and leverages both quantitative and qualitative analytical strategies to transform parents' and child care providers voices into actionable practices.

#### ACADEMIC APPOINTMENTS

- Social Science Research Scholar, GSE Centers and Programs

#### PROFESSIONAL EDUCATION

- B.S., Renmin University of China , Statistics (2015)
- M.S., The University of Georgia , Human Development and Family Science (2017)
- Ph.D., The University of Georgia , Human Development and Family Science (2020)

### Publications

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#### PUBLICATIONS

- **Mental-Health Trajectories of U.S. Parents With Young Children During the COVID-19 Pandemic: A Universal Introduction of Risk** *CLINICAL PSYCHOLOGICAL SCIENCE*  
Zalewski, M., Liu, S., Gunnar, M., Lengua, L. J., Fisher, P. A.  
2022

- **Material hardship level and unpredictability in relation to U.S. households' family interactions and emotional well-being: Insights from the COVID-19 pandemic.** *Social science & medicine (1982)*  
Liu, S., Zalewski, M., Lengua, L., Gunnar, M. R., Giuliani, N., Fisher, P. A.  
2022; 307: 115173
- **Early experience unpredictability in child development as a model for understanding the impact of the COVID-19 pandemic: A translational neuroscience perspective.** *Developmental cognitive neuroscience*  
Liu, S., Fisher, P. A.  
2022; 54: 101091
- **A brief video-coaching intervention buffers young children's vulnerability to the impact of caregivers' depressive symptoms: Examination of differential susceptibility** *DEVELOPMENT AND PSYCHOPATHOLOGY*  
Liu, S., Fisher, P. A., Schlueter, L. J., Phu, T., Gunnar, M. R., Watamura, S. E.  
2021; 33 (5): 1685-1700
- **Amygdalar Activation as a Neurobiological Marker of Differential Sensitivity in the Effects of Family Rearing Experiences on Socioemotional Adjustment in Youths** *BIOLOGICAL PSYCHIATRY-COGNITIVE NEUROSCIENCE AND NEUROIMAGING*  
Liu, S., Oshri, A., Kogan, S. M., Wickrama, K. S., Sweet, L.  
2021; 6 (11): 1052-1062
- **Examining the relationship between discrimination, access to material resources, and black children's behavioral functioning during COVID-19** *EARLY CHILDHOOD RESEARCH QUARTERLY*  
Ibekwe-Okafor, N., Sims, J., Liu, S., Curenton-Jolly, S., Iruka, I., Escayg, K., Bruno, B., Fisher, P.  
2023; 62: 335-346
- **Improving Children's Expressive Language and Auditory Comprehension Through Responsive Caregiving: Evidence from a Randomized Controlled Trial of a Strength-Based Video-Coaching Intervention.** *Prevention science : the official journal of the Society for Prevention Research*  
Imhof, A., Liu, S., Schlueter, L., Phu, T., Watamura, S., Fisher, P.  
2022
- **Is perceived stress linked to enhanced cognitive functioning and reduced risk for psychopathology? Testing the hormesis hypothesis** *PSYCHIATRY RESEARCH*  
Oshri, A., Cui, Z., Carvalho, C., Liu, S.  
2022; 314: 114644
- **The COVID-19 Pandemic Impact on Households of Young Children With Special Healthcare Needs** *JOURNAL OF PEDIATRIC PSYCHOLOGY*  
Liu, S., Lombardi, J., Fisher, P. A.  
2022; 47 (2): 158-170
- **Biological sensitivity to context as a dyadic construct: An investigation of child-parent RSA synchrony among low-SES youth** *DEVELOPMENT AND PSYCHOPATHOLOGY*  
Oshri, A., Liu, S., Suveg, C. M., Caughy, M., Huffman, L.  
2021
- **Improving Caregiver Self-Efficacy and Children's Behavioral Outcomes via a Brief Strength-Based Video Coaching Intervention: Results from a Randomized Controlled Trial** *PREVENTION SCIENCE*  
Liu, S., Phu, T., Dominguez, A., Hurwich-Reiss, E., McGee, D., Watamura, S., Fisher, P.  
2021
- **Developmental pathways from child maltreatment to adolescent suicide-related behaviors: The internalizing and externalizing comorbidity hypothesis** *DEVELOPMENT AND PSYCHOPATHOLOGY*  
Duprey, E., Oshri, A., Liu, S.  
2020; 32 (3): 945-959
- **Physiological Stress Response Reactivity Mediates the Link Between Emotional Abuse and Youth Internalizing Problems** *CHILD PSYCHIATRY & HUMAN DEVELOPMENT*  
Duprey, E., Oshri, A., Liu, S., Kogan, S. M., Caughy, M.  
2021; 52 (3): 450-463
- **Firm parenting and youth adjustment: Stress reactivity and dyadic synchrony of respiratory sinus arrhythmia** *DEVELOPMENTAL PSYCHOBIOLOGY*  
Oshri, A., Liu, S., Huffman, L. G., Koss, K. J.

2021; 63 (3): 470-480

- **Harsh Parenting and Youth Systemic Inflammation: Modulation by the Autonomic Nervous System** *HEALTH PSYCHOLOGY*  
Oshri, A., Duprey, E. B., Liu, S., Ehrlich, K. B.  
2020; 39 (6): 482-496
- **Child Maltreatment and Resilience: The Promotive and Protective Role of Future Orientation** *JOURNAL OF YOUTH AND ADOLESCENCE*  
Cui, Z., Oshri, A., Liu, S., Smith, E. P., Kogan, S. M.  
2020; 49 (10): 2075-2089
- **Heart Rate Variability Reactivity Moderates the Indirect Link Between Child Maltreatment and Young Adult Alcohol Use Problems Via Depressive Symptoms** *AMERICAN JOURNAL ON ADDICTIONS*  
Liu, S., Oshri, A., Duprey, E. B.  
2020; 29 (2): 141-150
- **Adverse parenting is indirectly linked to delayed reward discounting via blunted RSA reactivity: the protective role of a shift-and-persist coping strategy.** *Adversity and Resilience Science*  
Liu, S., Cui, Z., Duprey, E. B., Kogan, S. M., Oshri, A.  
2020; 1 (3): 149-163
- **Child Abuse and Neglect, Callous-Unemotional Traits, and Substance Use Problems: the Moderating Role of Stress Response Reactivity** *JOURNAL OF CHILD & ADOLESCENT TRAUMA*  
Oshri, A., Carlson, M., Duprey, E., Liu, S., Huffman, L., Kogan, S. M.  
2020; 13 (4): 389-398
- **The Mediating Role of Neural Activity on the Relationship Between Childhood Maltreatment and Impulsivity** *CHILD MALTREATMENT*  
Hallowell, E. S., Oshri, A., Liebel, S. W., Liu, S., Duda, B., Clark, U. S., Sweet, L. H.  
2019; 24 (4): 389-399
- **Adverse Childhood Experiences and Amygdalar Reduction: High-Resolution Segmentation Reveals Associations With Subnuclei and Psychiatric Outcomes** *CHILD MALTREATMENT*  
Oshri, A., Gray, J. C., Owens, M. M., Liu, S., Duprey, E., Sweet, L. H., MacKillop, J.  
2019; 24 (4): 400-410
- **Socioeconomic hardship and delayed reward discounting: Associations with working memory and emotional reactivity** *DEVELOPMENTAL COGNITIVE NEUROSCIENCE*  
Oshri, A., Hallowell, E., Liu, S., MacKillop, J., Galvan, A., Kogan, S. M., Sweet, L. H.  
2019; 37: 100642
- **Childhood Maltreatment, Self-esteem, and Suicidal Ideation in a Low-SES Emerging Adult Sample: The Moderating Role of Heart Rate Variability** *ARCHIVES OF SUICIDE RESEARCH*  
Duprey, E., Oshri, A., Liu, S.  
2019; 23 (2): 333-352
- **Child Maltreatment, Delayed Reward Discounting, and Alcohol and Other Drug Use Problems: The Moderating Role of Heart Rate Variability** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*  
Oshri, A., Liu, S., Duprey, E., MacKillop, J.  
2018; 42 (10): 2033-2046
- **Growth Patterns of Future Orientation Among Maltreated Youth: A Prospective Examination of the Emergence of Resilience** *DEVELOPMENTAL PSYCHOLOGY*  
Oshri, A., Duprey, E. B., Kogan, S. M., Carlson, M. W., Liu, S.  
2018; 54 (8): 1456-1471
- **Alcohol Use and Depressive Symptoms Among a Nationally Representative Sample of Youth Investigated for Maltreatment** *JOURNAL OF STUDIES ON ALCOHOL AND DRUGS*  
Liu, S., Oshri, A., Duprey, E. B.  
2018; 79 (3): 380-390
- **Pathways Linking Adverse Childhood Experiences to Cigarette Smoking Among Young Black Men: a Prospective Analysis of the Role of Sleep Problems and Delayed Reward Discounting** *ANNALS OF BEHAVIORAL MEDICINE*  
Oshri, A., Kogan, S., Liu, S., Sweet, L., Mackillop, J.

