

Zehua Cui

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Curriculum Vitae

RESEARCH INTERESTS

My research focuses on examining the impact of early life stress at multiple ecological contexts (e.g., family, school, neighborhood, etc.) on children's socio-emotional, behavioral, psychobiological, and neurocognitive development. In addition, I seek to explore and identify multilevel processes and protective factors that elucidate the developmental mechanisms of resilience among children in adverse contexts.

EDUCATION

Ph.D.	2017 - 2022	Human Development and Family Science, University of Georgia, Athens, GA, U.S. <i>Certificate in Quantitative Methodology</i>
A.M.	2012 - 2014	Crown Family School of Social Work, Policy, and Practice University of Chicago, Chicago, Illinois
B.A.	2008 - 2012	English Shanghai University, Shanghai, China

ACADEMIC AND GRANT-RELATED RESEARCH EXPERIENCE

2022-present	Post-doctoral Fellow , Neurocognitive Development Lab, Department of Psychology, University of Maryland, College Park, MD PI: Tracy Riggins
2017-2022	Graduate Researcher , Youth Development Institute, Department of Human Development and Family Science, University of Georgia, Athens, GA PI: Assaf Oshri
2019-2021	Lab Coordinator <ul style="list-style-type: none"> ▪ Coordinated general laboratory operations and data collections; supervised and mentored junior graduate students and undergraduate research assistants; led lab meetings. ▪ Served as grant project coordinator for Development of Resilience in Rural Youth (DORRY) funded by NIDA (K01DA045219-02; \$992,504); assisted in designing project protocol; built Qualtrics survey; trained and supervised research team; collected survey, observational, physiological, MRI, fMRI data from rural community sample of parents and adolescents.
2018-2020	Lab Data Manager <ul style="list-style-type: none"> ▪ Cleaned, managed, and organized datasets that the laboratory has access to, including nationally representative longitudinal datasets and project datasets collected in the laboratory, analyzed survey, observational, and physiological (including EKG, MRI, and fMRI) data, built data codebooks.

AWARDS AND FELLOWSHIPS

2017-2022	University of Georgia (UGA), Presidential Graduate Research Fellowship
2021	University of Georgia, College of Family and Consumer Sciences (FACS), Funds for Excellence Scholarship
2019-2020	University of Georgia, FACS, Costa Fund Travel Award
2019	University of Georgia, FACS, Creswell Fund Travel Award
2018	University of Georgia, Department of Human Development and Family Science (HDFS), Travel Award
2012-2014	University of Chicago, 2-year merit-based Tuition Award
2013-2014	University of Chicago, Community School Program of Study Fellowship
2013	Johnson College Prep, "Teacher of the Week"
2011	Shanghai University, Academic Scholarship – Second Class
2009	Shanghai University, Excellent Summer Volunteer of Sanlin Community
2009	Shanghai University, Outstanding Individual in Community Service
2008	Shanghai University, Freshman Scholarship – First Class

PUBLICATIONS

- Oshri, A., **Cui, Z.**, Owens, M., Carvalho, C., & Sweet, L. (2022). Low-to-moderate level of perceived stress strengthens working memory: Testing the hormesis hypothesis through neural activation. *Neuropsychologia*, 108354. <https://doi.org/10.1016/j.neuropsychologia.2022.108354>
- Oshri, A., **Cui, Z.**, Carvalho, C., & Liu, S. (2022). Is perceived stress linked to enhanced cognitive functioning and reduced risk for psychopathology? Testing the hormesis hypothesis. *Psychiatry Research*, 314, 114644. <https://doi.org/10.1016/j.psychres.2022.114644>.
- Zhang, L., **Cui, Z.**, Sasser, J., Carvalho, C., Oshri, A. (2022). Family stress during the Pandemic worsens the effect of adverse parenting on adolescent sleep quality. *Child Abuse and Neglect*, 123, 105390. <https://doi.org/10.1016/j.chiabu.2021.105390>
- Liu, S., **Cui, Z.**, Duprey, E.B., Kogan S.M., & Oshri, A. (2020). Harsh parenting is indirectly linked to delayed reward discounting via blunted HRV-reactivity: The protective role of shift and persist cognitive strategy. *Adversity and Resilience Science*, 1(3), 149-163. <https://doi.org/10.1007/s42844-020-00012-8>
- Cui, Z.**, Oshri, A., Liu, S., Smith, P. E., Kogan, S. M. (2020). Child maltreatment and resilience: The promotive and protective role of future orientation. *Journal of Youth and Adolescence*, 49(10), 2075-2089. <https://doi.org/10.1007/s10964-020-01227-9>

MANUSCRIPTS UNDER REVIEW OR REVISION

- Zhang, L., **Cui, Z.**, Huffman, L., Oshri, A. (under review). Sleep mediates the effect of stressful environments on youth development of impulsivity: The moderating role of within default mode network resting-state functional connectivity. *Journal of Child Psychology and Psychiatry*.

MANUSCRIPTS IN PREPARATION

*Only manuscripts with final analyses done and/or manuscript drafted are presented

1. **Cui, Z.**, Huffman, L., Duprey, E., Liu, S., Smith, E., Caughy, M., Oshri, A. The effects of neighborhood physical disorder and socio-economic disadvantage on youths' future orientation: The role parenting strategies.
2. **Cui, Z.**, Duprey, E.B., Liu, S., Oshri, A. Individual and relational future orientation among emerging adults: Development and validation of a new measure.

CONFERENCE PRESENTATIONS

Paper Presentations

1. Liu, S., **Cui, Z.**, Wagner, S.K., Oshri, A. (2020). *Parent-child stress response synchrony: the associations with parental depression and youth's future orientation*. Paper accepted for the Biennial Meeting of Society for Research on Adolescence, San Diego, CA.
2. Dian, Y., **Cui, Z.**, Smith, E.P., Caughy, M. (2020). *The myth of post-racialism: Racial-ethnic pride and perceived racial-ethnic barriers matter for African, Latino, and European American Youth's Adjustment*. Abstract accepted for special themed meeting at Society for Research in Child Development.
3. Duprey, E.B., Liu, S., **Cui, Z.**, Goodgame, L., Oshri, A. (2019). *Adverse parenting, HRV reactivity, and decision making: The moderating role of shift and persist traits*. Paper to be presented at the Biennial Meeting of Society for Research on Child Development, Baltimore, Maryland.
4. Duprey, E. B., **Cui, Z.**, Sasser, J., Gallegos, D., Oshri, A. (2018). *Childhood maltreatment and suicidal ideation: Future orientation as a protective factor for low-SES young adults*. Paper submitted to the Annual Meeting of the National Council on Family Relations, 2018.
5. Dian, Y., **Cui, Z.**, Smith, E.P. (2018). *The role of racial-ethnic identity and perceived racial ethnic barriers in youth problem behaviors and academic achievement*. Paper to be presented at the annual meeting of Society for Prevention Research, Washington, DC.
6. Liu, S., Duprey, E.B., **Cui, Z.**, & Oshri, A. (May 2018). *Parental substance use perception, anxiety symptomatology, and young adults' alcohol and drug use problems*. Paper to be presented at the annual meeting of Society for Prevention Research, Washington, DC.
7. Liu, S., Oshri, A., Duprey, E.B., **Cui, Z.**, & Srochi, J. (2018). *Child maltreatment, depressive symptoms, and self-medicated substance use: The moderating role of respiratory sinus arrhythmia*. Paper to be presented at the 2018 Society for Research on Adolescence Biennial Meeting, Minneapolis, MN.

Poster Presentations

1. Oshri, A., **Cui, Z.**, Carvalho, C., Owens, M., Liu, J., Sweet, L. (2022). *Does stress benefit working memory? A test of the Hormesis hypothesis*. Abstract submitted for presentation at Organization for Human Brain Mapping 2022 Annual Conference, Glasgow, Scotland.
2. **Cui, Z.**, Zhang, L., Howard, C., Oshri, A. (2022). *Early life stress and internalizing symptoms: The moderating role of socioemotional neural sensitivity to positive social reward*. Poster accepted for presentation at Society for Research on Adolescence 2022 Biennial Meeting, New Orleans, Louisiana.
3. **Cui, Z.**, Zhang, L., Carvalho, C., Huffman, L., Oshri, A. (2021). *Family material hardship, youths' future orientation, and perseverance: The protective role of brain's resting-state functional connectivity*. Poster accepted for presentation at the FLUX 2021 virtual congress.
4. Zhang, L., Huffman, L., **Cui, Z.**, Oshri, A. (2021). *The link between environmental*

- unpredictability and impulsivity via sleep duration: Default Mode Network resting-state functional connectivity as a protective factor.* Poster accepted for presentation at the FLUX 2021 virtual congress.
5. Zhang, L., **Cui, Z.**, Sasser, J., Oshri, A. (2021). *COVID-19 related stress intensifies the impact of child maltreatment on sleep quality.* Accepted for oral and poster presentation at the 35th Annual Meeting of the Associated Professional Sleep Societies (APSS).
 6. Huffman, L.G., **Cui, Z.**, Oshri, A. (2020). *Deprivation & threat, resting-state functional connectivity, and psychopathology within the ABCD Sample.* Poster accepted for presentation at the FLUX 2020 virtual congress.
 7. Huffman, L.G., **Cui, Z.**, Oshri, A. (2020). *Neural and behavioral correlates of inhibitory control as mediators between childhood adversity and externalizing problems.* Poster accepted for presentation at the FLUX 2020 virtual congress.
 8. Oshri, A., **Cui, Z.**, Huffman, L.G. (2020). *Family conflict and youth adjustment: The moderating role of Default Mode Network resting-state functional connectivity (DMN rs-fc).* Poster accepted for presentation at the FLUX 2020 virtual congress.
 9. Oshri, A., **Cui, Z.**, Sweet, L., Huffman, L.G., Liu, S. (2020). *Perceived stress and psychopathology: Neurocognitive Hormetic process of resilience.* Poster accepted for presentation at the 41st Stress and Anxiety Research Society STAR International Conference, Haifa, Israel.
 10. Reina, A., Smith, K., **Cui, Z.** (2020). *The effects of yoga on risk factors associated with metabolic syndrome in menopausal-aged women: A systematic review and meta-analysis.* Poster accepted for presentation at the Annual Meeting of American Public Health Association, San Francisco, CA.
 11. **Cui, Z.**, Duprey, E. B., Liu, S., Oshri, A. (2020). *Tailoring parental control strategies to mitigate the risk posed by neighborhood disorder on youth outcomes?* Poster accepted for presentation at the Biennial Meeting of Society for Research on Adolescence, San Diego, CA.
 12. **Cui, Z.**, Liu, S., Goodgame, L., Oshri, A. (2019). *Neurocognitive pathways linking family and community process to adolescent drug use among rural Southern youth.* Poster accepted for presentation at the 1st Collaborative Research on Addiction at NIH (CRAN) Mentored K Career Development Awardee Meeting, NIH campus.
 13. **Cui, Z.**, Duprey, E. B., Goodgame, L., Oshri, A. (2019). *Youth future orientation: Does parenting, family, and neighborhood context matter?* Poster accepted for presentation at the Annual Meeting of the National Council on Family Relations, Fort Worth, Texas.
 14. **Cui, Z.**, Liu, S., Oshri, A., & Goodgame, L. (2019). *Future orientation: Resilience among maltreated youth.* Poster accepted for presentation at the Biennial Meeting of Society for Research on Child Development, Baltimore, Maryland.
 15. Liu, S., Oshri, A., Osborne K.R., **Cui, Z.**, & Ellis E. (2019). *Family environment, RSA, and pre-adolescents' social-behavioral outcomes: Evidence of differential susceptibility.* Poster accepted for presentation at the Biennial Meeting of Society of Research on Child Development, Baltimore, MA.

TEACHING AND MENTORING EXPERIENCE

Co-instructor (* Taught 80% of the class)

Department of Human Development and Family Science, University of Georgia
 HDFFS 3700: Adolescent Development (Fall, 2019; 4.79/5)

Teaching Assistantships

Department of Human Development and Family Science, University of Georgia

HDFS 6900/7170: Seminar in Quantitative Analysis I, (Fall, 2018-2020)

HDFS 8730: Structural Equation Modeling for Social Science, (Spring, 2018-2020)

Undergraduate Students Mentoring

1. Carmain, S., **Cui, Z.**, Oshri, A. (2021). Building resilience through adversity: An investigation of dose-response association in emotional regulation and harsh parenting. Biology Major Research Internship – semester paper.
2. Carmain, S., **Cui, Z.**, Oshri, A. (2021). Up all night? The effect of screen time and sleep problems on working memory. Biology Major Research Internship – semester paper.
3. Thompson, J., **Cui, Z.**, Oshri, A. (2021). The effects of racist experiences on health behaviors: The role of parenting and social media. Poster accepted for presentation at Center for Undergraduate Research Opportunities, University of Georgia, Athens, GA
4. Myers, H., **Cui, Z.**, Oshri, A. (2020). Sexual assault, drug use, and risky sexual behaviors: The moderating role of shift and persist. Poster accepted for presentation at Center for Undergraduate Research Opportunities, University of Georgia, Athens, GA
5. Jenny Z., **Cui, Z.**, Liu, S., Oshri, A. (2020). The link between parental psychological control and youth maladjustment: The moderating role of parental affection expression. Center for Undergraduate Research Opportunities – Honor Thesis, University of Georgia, Athens, GA.
6. Arthur, A., **Cui, Z.**, Oshri, A. (2020). The associations between working memory and emotional regulation in developing adolescents. Biology Major Research Internship – semester paper.
7. Abolhassani, A., **Cui, Z.**, Oshri, A. (2020). The influence of parental experience of childhood maltreatment on parent-child dyadic synchrony. Biology Major Research Internship – semester paper.

SERVICE

Service to Department of Human Development and Family Science

Lifespan Development Faculty Search Committee – student representative	2021
Graduate Student Organization – event planner	2019

Ad-hoc Reviewer

Journal of Adolescence
 Adolescent Research Review
 Child Maltreatment
 Child Abuse & Neglect
 Journal of Research on Adolescence
 Journal of Applied Developmental Psychology
 Journal of Child and Family Studies
 Current Psychology

RELATED PROFESSIONAL EXPERIENCE

July, 2018	Assistant Instructor	Future Leaders – Youth Development Camp (University of Georgia)
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Dec. 2014 – June. 2015	School Social Worker	Futures Education of Illinois, LLC.
Sept. – Dec. 2014	Youth Service Provider (Impact Fellow)	Youth Organizations Umbrella, Inc.
June. – Dec. 2014	Early Childhood Education Program Intern	Heartland Alliance – Refugee and Immigrant Community Services
Aug. 2013 – July. 2014	School Social Work Intern	Noble Street Charter School – Johnson College Prep
Aug. 2013 – Feb. 2015	Child Advocate	The Young Center for Immigrant Children’s Rights
Sept. 2012 – July. 2013	School Social Work Intern	Namaste Charter School
July. 2013	Cohort Discussion Co- Facilitator	University of Chicago Collegiate Scholars Program – College Countdown

STATISTICAL AND TECHNICAL SKILLS

Neuroimaging data processing

Modality: Task fMRI neural activation; Resting-state functional connectivity

Analysis software: Analysis of Functional NeuroImages (AFNI)

Statistical analyses

Methods: Regression, Confirmatory/Exploratory Factor Analysis, Measurement Invariance, Structural Equation Modeling, Growth Curve Modeling, Multilevel Modeling, Meta-Analysis

Analysis software: SPSS, Mplus, R (intermediate), Jeffrey’s Amazing Statistics Program (JASP)

PROFESSIONAL TRAINING AND CERTIFICATIONS

June. – Aug. 2021	Adolescent Brain Cognitive Development (ABCD) Workshop on Brain Development and Mental Health, Virtual
Feb. – Mar. 2019	MRI and fMRI Scanning Training, University of Georgia
2018 (1–hour session)	MRI and fMRI Safety Training, University of Georgia
2018 (3–hour session)	The R Workshop for Beginners, University of Georgia
2015 (3–hour/session)	Understanding Autism: An Overview for Families and Professionals (Session 1); Tips and Tools for Homes and Schools (Session 2), Resource Center for Autism and Developmental Delays
Oct. 2013 – May. 2014	An Introduction to the Psychodynamic Child Psychotherapy, the Chicago Institute for Psychoanalysis
2013 (3–hour session)	Cognitive-Behavioral Intervention for Trauma in Schools (CBITS) Training, Hartgrove Hospital
Sept. – Dec. 2013	How Children Cope with Loss Workshops, the Chicago Institute for Psychoanalysis, Barr- Harris Children’s Grief Center

PROFESSIONAL MEMBERSHIPS

American Psychological Association Division 7

Society for Research on Adolescence

Flux: The Society for Developmental Cognitive Neuroscience

LICENSE

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