

ADON ROSEN

(+1) 703-389-3187 ♦ adon.rosen@gmail.com

<https://adrose.github.io>

Google Scholar ♦ Github

RESEARCH INTERESTS

Methodological Area: Bayesian statistics, longitudinal and multilevel modeling, ordinal data analysis, ecological momentary assessment, digital and mobile health, dyadic interactions.

Substantive Area: Brain-behavior relationships, assessment of psychopathology, measurement of adversity and neglect, measurement of substance use

EDUCATION

Ph.D. Quantitative Psychology 2019-2024

University of Oklahoma, Norman, OK

Dissertation: Inferential Capabilities Of Multilevel Weibull Regression For The Analysis Of Discrete-State Continuous-Time Behavioral Data

M.S. Experimental Psychology 2019-2021

University of Oklahoma, Norman, OK

Thesis: Formative And Reflexive Parameter Bias Under Instances Of Continuous Partial Measurement Noninvariance Before And After Item Purification Using The Multiple Indicator Multiple Causes Model

B.S. Psychology 2010-2014

Virginia Polytechnic Institute and State University, Blacksburg, VA

Thesis: Mathematical Ways Of Operating: An fMRI Study With 12-year-old Participants

RESEARCH EXPERIENCE

Postdoctoral Researcher. 2024 - Present

Supervisor: Dr. Ashley L. Watts Vanderbilt University Department of Psychology

- Developed Bayesian change point modeling for the analysis of heavily-skewed multilevel cross-sectional panel data
- Developed alternative reliability technique for examining measurement capabilities of highly-skewed data

Graduate Research Associate. 2019 - 2024

Supervisor: Dr. David E. Bard University of Oklahoma Department of Pediatrics

- Examined measurement properties of the Ages and Stages questionnaire in a statewide database
- Led the analysis of an RCT examining Parent-Child Interaction Therapy's influence on dyadic interactions

Senior Imaging Analyst. 2015 - 2019

Supervisor: Dr. Ruben C. Gur University of Pennsylvania Department of Psychiatry

- Led the quality assessment, processing, and analysis of a large (n=2400) developmental neuroimaging database
- Developed an automated procedure for the quality control process for structural neuroimages

HONORS & AWARDS

Chuck Gettys Award For Outstanding Research In Graduate School 2023

DFCAS Graduate Fellowship 2023

Data Institute for Societal Change Graduate Student Seed Funding 2023

Honorable Mention National Science Foundation Graduate Research Fellowship 2020

Faculty for Undergraduate Psychology Travel Grant 2014

Undergraduate Award for Research Excellence 2014

Published

- [1] A. DeLetter, L. Stafford, A. F. G. Rosen, D. E. Bard, and S. DeLeon. “Seeking Care for Suicidal Thoughts and Actions: How COVID Affected Our Pediatric Patients”. In: *JAACAP Open* (May 2025).
- [2] K. Kwasneski, A. F. G. Rosen, and E. A. Skowron. “Characterizing Beneficial Change in Parent Attributions over the Course of Parent-Child Interaction Therapy: Dosage in Phase of Treatment Matters”. In: *Development and Psychopathology* (Aug. 2025).
- [3] A. F. G. Rosen, K. Kwasneski, X. Liao, D. E. Bard, and E. A. Skowron. “Parent-Child Interaction Therapy’s Influence on Parental Behavior and Child Compliance in a Child-Welfare Involved Randomized Clinical Trial”. In: *Child & Family Behavior Therapy* 0.0 (July 2025).
- [4] J. D. Durham, A. F. G. Rosen, and S. D. Gronlund. “Blame Framing and Prior Knowledge Influence Moral Judgments for People Involved in the Tulsa Race Massacre among a Combined Oklahoma and UK Sample”. In: *Frontiers in Psychology* 15 (Feb. 2024).
- [5] T. M. Moore, M. E. Calkins, A. F. G. Rosen, E. R. Butler, K. Ruparel, P. Fusar-Poli, N. Koutsouleris, P. McGuire, T. D. Cannon, R. C. Gur, and R. E. Gur. “Development of a Probability Calculator for Psychosis Risk in Children, Adolescents, and Young Adults”. In: *Psychological Medicine* 52.14 (Oct. 2022).
- [6] A. F. G. Rosen, E. Auger, N. Woodruff, A. M. Proverbio, H. Song, L. E. Ethridge, and D. Bard. “The Multiple Indicator Multiple Cause Model for Cognitive Neuroscience: An Analytic Tool Which Emphasizes the Behavior in Brain–Behavior Relationships”. In: *Frontiers in Psychology* 13 (Aug. 2022).
- [7] R. C. Gur, E. R. Butler, T. M. Moore, A. F. G. Rosen, K. Ruparel, T. D. Satterthwaite, D. R. Roalf, E. D. Gennatas, W. B. Bilker, R. T. Shinohara, A. Port, M. A. Elliott, R. Verma, C. Davatzikos, D. H. Wolf, J. A. Detre, and R. E. Gur. “Structural and Functional Brain Parameters Related to Cognitive Performance Across Development: Replication and Extension of the Parieto-Frontal Integration Theory in a Single Sample”. In: *Cerebral Cortex* 31.3 (Mar. 2021).
- [8] R. Barzilay, A. F. G. Rosen, T. M. Moore, D. R. Roalf, T. D. Satterthwaite, M. E. Calkins, K. Ruparel, A. Patrick, J. C. Scott, D. H. Wolf, et al. “Structural Brain Patterns Associated with Traumatic Stress Resilience and Susceptibility to Mood and Anxiety Symptoms in Youths”. In: *Adversity and Resilience Science* 1.3 (2020).
- [9] A. N. Kaczkurkin, A. Sotiras, E. B. Baller, R. Barzilay, M. E. Calkins, G. B. Chand, Z. Cui, G. Erus, Y. Fan, R. E. Gur, R. C. Gur, T. M. Moore, D. R. Roalf, A. F. G. Rosen, K. Ruparel, R. T. Shinohara, E. Varol, D. H. Wolf, C. Davatzikos, and T. D. Satterthwaite. “Neurostructural Heterogeneity in Youths With Internalizing Symptoms”. In: *Biological Psychiatry. Mechanisms of Major Depression* 87.5 (Mar. 2020).
- [10] A. R. Pines, M. Cieslak, B. Larsen, G. L. Baum, P. A. Cook, A. Adebimpe, D. G. Dávila, M. A. Elliott, R. Jirsaraie, K. Murtha, D. J. Oathes, K. Piiwaa, A. F. G. Rosen, S. Rush, R. T. Shinohara, D. S. Bassett, D. R. Roalf, and T. D. Satterthwaite. “Leveraging Multi-Shell Diffusion for Studies of Brain Development in Youth and Young Adulthood”. In: *Developmental Cognitive Neuroscience* 43 (June 2020).
- [11] D. R. Roalf, A. G. de la Garza, A. F. G. Rosen, M. E. Calkins, T. M. Moore, M. Quarmley, K. Ruparel, C. H. Xia, P. E. Rupert, T. D. Satterthwaite, R. T. Shinohara, M. A. Elliott, R. C. Gur, and R. E. Gur. “Alterations in White Matter Microstructure in Individuals at Persistent Risk for Psychosis”. In: *Molecular Psychiatry* 25.10 (Oct. 2020).
- [12] A. F. G. Rosen, T. M. Moore, M. E. Calkins, R. C. Gur, and R. E. Gur. “Effects of Skip-Logic on the Validity of Dimensional Clinical Scores: A Simulation Study”. In: *Psychopathology* 52.6 (Jan. 2020).
- [13] R. E. Gur, T. M. Moore, A. F. G. Rosen, R. Barzilay, D. R. Roalf, M. E. Calkins, K. Ruparel, J. C. Scott, L. Almasy, T. D. Satterthwaite, R. T. Shinohara, and R. C. Gur. “Burden of Environmental Adversity Associated With Psychopathology, Maturation, and Brain Behavior Parameters in Youths”. In: *JAMA Psychiatry* 76.9 (Sept. 2019).
- [14] R. J. Jirsaraie, A. N. Kaczkurkin, S. Rush, K. Piiwia, A. Adebimpe, D. S. Bassett, J. Bourque, M. E. Calkins, M. Cieslak, R. Ciric, P. A. Cook, D. Davila, M. A. Elliott, E. Leibenluft, K. Murtha, D. R. Roalf, A. F. G. Rosen, K. Ruparel, R. T. Shinohara, A. Sotiras, D. H. Wolf, C. Davatzikos, and T. D. Satterthwaite. “Accelerated Cortical

Thinning within Structural Brain Networks Is Associated with Irritability in Youth”. In: *Neuropsychopharmacology* 44.13 (Dec. 2019).

- [15] A. N. Kaczkurkin, S. S. Park, A. Sotiras, T. M. Moore, M. E. Calkins, M. Cieslak, A. F. G. Rosen, R. Ciric, C. H. Xia, Z. Cui, A. Sharma, D. H. Wolf, K. Ruparel, D. S. Pine, R. T. Shinohara, D. R. Roalf, R. C. Gur, C. Davatzikos, R. E. Gur, and T. D. Satterthwaite. “Dimensions of Psychopathology Are Dissociably Linked to Brain Structure in Youth”. In: *The American journal of psychiatry* 176.12 (Dec. 2019).
- [16] A. N. Kaczkurkin, S. S. Park, A. Sotiras, T. M. Moore, M. E. Calkins, M. Cieslak, A. F. G. Rosen, R. Ciric, C. H. Xia, Z. Cui, A. Sharma, D. H. Wolf, K. Ruparel, D. S. Pine, R. T. Shinohara, D. R. Roalf, R. C. Gur, C. Davatzikos, R. E. Gur, and T. D. Satterthwaite. “Evidence for Dissociable Linkage of Dimensions of Psychopathology to Brain Structure in Youths”. In: *American Journal of Psychiatry* 176.12 (Dec. 2019).
- [17] T. M. Moore, M. E. Calkins, T. D. Satterthwaite, D. R. Roalf, A. F. G. Rosen, R. C. Gur, and R. E. Gur. “Development of a Computerized Adaptive Screening Tool for Overall Psychopathology (“p”)”. In: *Journal of Psychiatric Research* 116 (Sept. 2019).
- [18] R. Nassar, A. N. Kaczkurkin, C. H. Xia, A. Sotiras, M. Pehlivanova, T. M. Moore, A. Garcia de La Garza, D. R. Roalf, A. F. G. Rosen, S. A. Lorch, K. Ruparel, R. T. Shinohara, C. Davatzikos, R. C. Gur, R. E. Gur, and T. D. Satterthwaite. “Gestational Age Is Dimensionally Associated with Structural Brain Network Abnormalities Across Development”. In: *Cerebral Cortex* 29.5 (May 2019).
- [19] J. C. Scott, A. F. G. Rosen, T. M. Moore, D. R. Roalf, T. D. Satterthwaite, M. E. Calkins, K. Ruparel, R. E. Gur, and R. C. Gur. “Cannabis Use in Youth Is Associated with Limited Alterations in Brain Structure”. In: *Neuropsychopharmacology* 44.8 (2019).
- [20] S. N. Vandekar, H. Shou, T. D. Satterthwaite, R. T. Shinohara, A. K. Merikangas, D. R. Roalf, K. Ruparel, A. F. G. Rosen, E. D. Gennatas, M. A. Elliott, et al. “Sex Differences in Estimated Brain Metabolism in Relation to Body Growth through Adolescence”. In: *Journal of Cerebral Blood Flow & Metabolism* 39.3 (2019).
- [21] G. L. Baum, D. R. Roalf, P. A. Cook, R. Ciric, A. F. G. Rosen, C. Xia, M. A. Elliott, K. Ruparel, R. Verma, B. Tung, R. C. Gur, R. E. Gur, D. S. Bassett, and T. D. Satterthwaite. “The Impact of In-Scanner Head Motion on Structural Connectivity Derived from Diffusion MRI”. In: *NeuroImage* 173 (June 2018).
- [22] R. Ciric, A. F. G. Rosen, G. Erus, M. Cieslak, A. Adeimpe, P. A. Cook, D. S. Bassett, C. Davatzikos, D. H. Wolf, and T. D. Satterthwaite. “Mitigating Head Motion Artifact in Functional Connectivity MRI”. In: *Nature Protocols* 13.12 (Dec. 2018).
- [23] A. N. Kaczkurkin, T. M. Moore, M. E. Calkins, R. Ciric, J. A. Detre, M. A. Elliott, E. B. Foa, A. Garcia de la Garza, D. R. Roalf, A. F. G. Rosen, K. Ruparel, R. T. Shinohara, C. H. Xia, D. H. Wolf, R. E. Gur, R. C. Gur, and T. D. Satterthwaite. “Common and Dissociable Regional Cerebral Blood Flow Differences Associate with Dimensions of Psychopathology across Categorical Diagnoses”. In: *Molecular Psychiatry* 23.10 (Oct. 2018).
- [24] M. Pehlivanova, D. H. Wolf, A. Sotiras, A. N. Kaczkurkin, T. M. Moore, R. Ciric, P. A. Cook, A. G. de La Garza, A. F. G. Rosen, K. Ruparel, et al. “Diminished Cortical Thickness Is Associated with Impulsive Choice in Adolescence”. In: *Journal of neuroscience* 38.10 (2018).
- [25] A. F. G. Rosen, D. R. Roalf, K. Ruparel, J. Blake, K. Seelaus, L. P. Villa, R. Ciric, P. A. Cook, C. Davatzikos, M. A. Elliott, A. G. de La Garza, E. D. Gennatas, M. Quarmley, J. E. Schmitt, R. T. Shinohara, M. D. Tisdall, R. C. Craddock, R. E. Gur, R. C. Gur, and T. D. Satterthwaite. “Quantitative Assessment of Structural Image Quality”. In: *NeuroImage* 169 (Apr. 2018).
- [26] J. C. Scott, S. T. Slomiak, J. D. Jones, A. F. G. Rosen, T. M. Moore, and R. C. Gur. “Association of Cannabis with Cognitive Functioning in Adolescents and Young Adults: A Systematic Review and Meta-Analysis”. In: *JAMA psychiatry* 75.6 (2018).
- [27] S. N. Vandekar, T. D. Satterthwaite, A. F. G. Rosen, R. Ciric, D. R. Roalf, K. Ruparel, R. C. Gur, R. E. Gur, and R. T. Shinohara. “Faster Family-Wise Error Control for Neuroimaging with a Parametric Bootstrap”. In: *Biostatistics* 19.4 (2018).

Under Review

- [1] X. Liao, J. P. Ruggiero, D. E. Bard, A. F. G. Rosen, and E. A. Skowron. “Effects of PCIT Dosage on Child and Parent Outcomes: Differentiating CDI and PDI

Session Impacts in Child Welfare-Involved Families.” In: *Journal of Child Psychology and Psychiatry* Under-review ().

[2] A. L. Watts, A. F. G. Rosen, A. L. Greene, K. M. King, F. A. Meyer, P. K. Wood, T. J. Trull, D. L. Steinley, K. J. Sher, and K. J. Joyner. “Covariation among Higher-Order Psychopathology Dimensions Is Driven by Nomorbidity, Not Comorbidity”. In: *Nature Mental Health* ().

In Preparation

[1] A. F. G. Rosen, Y. Li, A. Treat, X. Liao, Y. Thompson, L. DeShea, A. Peters, and D. E. Bard. “An Examination of the Ages and Stages Questionnaires Reliability Within and Between Versions.” In: *Psychological Assessment* Under-review ().

[2] A. F. G. Rosen, H. Wu, and A. L. Watts. “Assessing Reliability In The Presence Of Highly Skewed Responses With Hurdle-derived Reliability”. In: *In-prep* ().

INVITED PRESENTATIONS

Effects of PCIT Dosage on Child and Parent Outcomes: Differentiating CDI and PDI Session Impacts in Child Welfare-involved Families.	
Parent Child Interaction Therapy International Convention, Knoxville, Tennessee.	2024
The Impact of the COVID-19 Pandemic on Suicidal Ideation Among Youth.	
Meeting of the IDEA-States Clinical Translational Resources COVID Consortium, Virtual.	2024
Operating Characteristics and their Relationship to Test Information in the Ages and Stages Questionnaire.	
Psychology Department, Norman, Oklahoma	2022
Cannabis, Psychosis Symptoms, and Cognitive Functioning: Findings from a Large, Community-Based Sample.	
International Neuropsychology Society, Denver, Colorado	2020
Cannabis Use in Youth is Associated with Limited Alterations in Brain Structure.	
Center for Neuroimage Processing, Philadelphia, Pennsylvania	2018
Data-driven Assessment of Structural Image Quality	
Center for Neuroimage Processing, Philadelphia, Pennsylvania	2016

SOFTWARE DEVELOPMENT

xcpEngine — Neuroimaging preprocessing tools
Role: Contributor

TEACHING EXPERIENCE

Guest Lecture:	
PSY 5003: Understanding Statistics	Fall 2023
University of Oklahoma	
Teaching Assistant:	
PSY 5013: Linear Models	Spring 2023
University of Oklahoma	
PSY 2003: Understanding Statistics	Fall 2023
University of Oklahoma	
PSY 5003: Psychological Statistics 1	Fall 2022
University of Oklahoma	
PSY 2603: Lifespan Development	Spring 2020
University of Oklahoma	

SERVICE

University of Oklahoma:	
Psychology Department Quantitative Psychology Search Committee	2021-2022
Psychology Graduate Student Association Research Chair	2019-2021
Student Judge for Undergraduate Research Fair	2020-2022

Ad hoc reviewer:		
npj Digital Medicine		2025: 1
BMC Medical Research Methodology		2021: 2; 2025: 1
Translational Psychiatry		2025: 1
Scientific Reports		2024: 1; 2025: 2
Neuroimage		2019: 1; 2023: 1
Human Brain Mapping	2020: 2; 2021: 1; 2022: 1	
Neuroscience and Biobehavioral Reviews		2021: 3
Brain Informatics		2020: 1
Cerebral Cortex		2019: 1
The American Journal of Psychiatry		2019: 1
Biological Psychiatry		2018: 1
Journal of Translational Engineering in Health and Medicine		2018: 1
Volunteer:		
Middle Tennessee Breakthrough T1D Walk Steering Committee		2024-Present
Philadelphia Tour de Cure Steering Committee		2016-2018

SKILLS

Programming Languages	R, Julia, Python, C/C++, BASH
Analytic Software	STAN, BUGS/JAGS
General	L ^A T _E X, Markdown, Illustrator, Gimp

REFERENCES

Dr. Ashley L. Watts	Dr. David E. Bard
Assistant Professor	Professor
Department of Psychology	Department of Pediatrics
Vanderbilt University	University of Oklahoma Health Sciences Center
ashley.watts@vanderbilt.edu	david-bard@ouhsc.edu
Dr. Hairong Song	
Associate Professor	
Department of Psychology	
University of Oklahoma	
hsong@ou.edu	