

ADON ROSEN

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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 University of Oklahoma, Norman, OK	2019-2025
M.S. Experimental Psychology University of Oklahoma, Norman, OK	2019-2021
B.S. Psychology Virginia Polytechnic Institute and State University, Blacksburg, VA	2010-2014

RESEARCH EXPERIENCE

Postdoctoral Researcher. <i>Supervisor: Dr. Ashley L. Watts</i>	2024 - Present Vanderbilt University Department of Psychology
<ul style="list-style-type: none">· 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. <i>Supervisor: Dr. David E. Bard</i>	2019 - 2024 University of Oklahoma Department of Pediatrics
<ul style="list-style-type: none">· 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. <i>Supervisor: Dr. Ruben C. Gur</i>	2015 - 2019 University of Pennsylvania Department of Psychiatry
<ul style="list-style-type: none">· 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. Adebimpe, 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 (2025).

[2] **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 (2025).

In Preparation

[1] **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* (2025).

[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: *In-prep* (2025).

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:	
Translational Psychiatry	2025: 1
Scientific Reports	2024: 1
Neuroimage	2019: 1; 2023: 1
Human Brain Mapping	2020: 2; 2021: 1; 2022: 1
Neuroscience and Biobehavioral Reviews	2021: 3
BMC Research Methodology	2021: 2
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 Assistant Professor Department of Psychology Vanderbilt University ashley.watts@vanderbilt.edu	Dr. David E. Bard Professor Department of Pediatrics University of Oklahoma Health Sciences Center david-bard@ouhsc.edu
Dr. Hairong Song Associate Professor Department of Psychology University of Oklahoma hsong@ou.edu	Dr. Elizabeth Skowron Professor Department of Psychology University of Oregon eskorwon@uoregon.edu