

# ELLYN BUTLER, M.S.

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## EDUCATION

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**Northwestern University, Evanston, IL** GPA: 3.97 September 2021 - present

Doctor of Philosophy in Clinical Psychology — Master of Science in Applied Statistics

Concentration in Developmental Science

- Principal Investigators: Robin Nusslock, Ph.D. & Noelle Samia, Ph.D.
- APA and PCSAS Accredited
- Dissertation Committee: Robin Nusslock, Ph.D., Noelle Samia, Ph.D., Catherine Insel, Ph.D., Liza Suárez, Ph.D., & Amanda Mejia, Ph.D.
- Dissertation Defense Date (expected): May 2026
- Dissertation: *Personalized network approaches and causal inference methods for developmental psychopathology and human neuroscience*
- Psychology Master's Thesis: *Neuroimmune mechanisms connecting violence with internalizing symptoms: A high-dimensional multi-modal mediation analysis*
- Statistics Master's Thesis: *Sex differences in response to violence: Role of salience network expansion and connectivity on depression*

**Oberlin College & Conservatory, Oberlin, OH** GPA: 3.96 August 2013 - May 2018

Bachelor of Arts in Psychology — Bachelor of Music in Flute Performance

Concentration in Statistical Modeling — Minor in Law & Society

## FELLOWSHIPS

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**Ruth L. Kirschstein National Research Service Award** September 2025 - present

*National Institute of Mental Health Individual Predoctoral Fellowship (F31)*

- Title: Sex differences in response to threat: Role of the salience network in the development of depression across adolescence (Impact score: 22 — Percentile: 5)
- Funding: \$88,266

**National Science Foundation Graduate Research Fellowship** September 2022 - August 2025

- Title: Delineating neuroimmune mechanisms of emotion dysregulation in maltreated youth
- Funding: \$148,000

## TRAVEL FUNDING

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**Society of Biological Psychiatry, New York City, NY** April 2026

- Travel Fellowship Award for the 2026 Annual Meeting — *Building Better Brains: From Synapses to Societies* — at the New York Marriott Marquis
- Funding: \$2,000

**University of Michigan, Ann Arbor, MI** June 2023

- Travel Award for the Genomics for Social Scientists Epigenetics Workshop
- Funding: \$1,200

## TECHNICAL SKILLS

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<b>Programming Languages</b>	R, Python, Bash, MATLAB, L <sup>A</sup> T <sub>E</sub> X
<b>Version Control</b>	GitHub, Docker, Singularity, Flywheel
<b>Neuroimaging Software</b>	fMRIprep, Workbench, NiLearn, ANTs, FSL, AFNI, Freesurfer

## CLINICAL WORK

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**Ann & Robert H. Lurie Children's Hospital of Chicago**  
*Trauma and Suicidality Practicum*

July 2025 - present

- Supervisor: Anthony Vesco, Ph.D.
- Supervision: Weekly individual and group supervision. Live supervision is being provided for implementation of the Collaborative Assessment and Management of Suicidality.
- Primary patient populations: Children and adolescents with a history of exposure to traumatic experiences or suicidal ideation and behaviors, and children and adolescents with co-morbid chronic health conditions (e.g., neuropathy following poisoning). Primary diagnoses included Post-Traumatic Stress Disorder. Co-morbidities included substance use disorders and Social Anxiety Disorder.
- Implementing Structured Psychotherapy for Adolescents Responding to Chronic Stress (SPARCS), a group therapy based on Dialectical Behavior Therapy (DBT) for adolescents who have had traumatic experiences (starting February 2026), and the Collaborative Assessment and Management of Suicidality (CAMS) intervention for adolescents who are suffering from serious thoughts of self-harm. Conducting individual therapy with teens who have been exposed to traumatic events (e.g., physical abuse, complex grief) using elements from a variety of individual therapies (e.g., UP, TF-CBT, ACT, DBT). Conducting semi-structured intakes to determine presenting problems, diagnoses, functional impairment, and various socio-ecological factors that may maintain or serve as tools to combat psychopathology. Providing and receiving feedback from an interdisciplinary team of clinical psychologists and social workers. Participating in weekly seminars on treating youth with traumatic stress disorders and on pediatric psychology. Completed Western Psychiatric Hospital's Comprehensive Crisis Management Training.

**The Urban Youth Trauma Center, University of Illinois at Chicago** July 2024 - June 2025  
*Anxiety, Trauma, and Substance Abuse Practicum*

- Supervisor: Liza Suárez, Ph.D.
- Supervision: Weekly individual, clinical psychology group, and interdisciplinary team supervision, each lasting one hour.
- Primary patient populations: Children and adolescents (ages 7-18) with a history of exposure to traumatic experiences or anxiety disorders from low-income and minoritized backgrounds (e.g., Black, Latino/a, LGBTQIA). Primary diagnoses included Post-Traumatic Stress Disorder, Generalized Anxiety Disorder, Social Anxiety Disorder, Major Depressive Disorder, and Separation Anxiety Disorder. Co-morbidities included intellectual disabilities, specific learning disorders, Autism Spectrum Disorder, substance use disorders, Attention-Deficit/Hyperactivity Disorder, and Oppositional Defiant Disorder.
- Implemented Trauma-Focused Cognitive Behavioral Therapy (TF-CBT) and Trauma Systems Therapy - Substance Abuse (TST-SA) with children and adolescents who had been exposed to trauma, and other CBT-based interventions for cases of anxiety and depression such as Parent Management Training and the Unified Protocol for Children and Adolescents. Covered content such as safety planning, psychoeducation, behavioral activation, motivational interviewing, ARC (antecedent, response, consequence), emotion identification, grounding, coping skills, cognitive flexibility, exposures, trauma narratives, interpersonal effectiveness (from DBT), and positive reinforcement programs. Conducted intake assessments using the Columbia-Suicide Severity Rating Scale (C-SSRS), the UCLA PTSD Reaction Index, and the Anxiety and Related Disorders Interview Schedule for DSM-5 (ADIS). Wrote mental health evaluations, biopsychosocial formulations, and treatment plans based on intake assessments to aid in the treatment process. Consulted with an interdisciplinary team of clinical psychologists, psychiatrists, and social workers. Referred patients to be assessed for developmental disabilities and communication disorders. Worked with an interpreter to speak with patients' parents. Presented on designing exposures and exposure hierarchies for triggers resulting from traumatic experiences. Used measurement-based care across interventions, presenting results to an interdisciplinary team.

**The Family Institute, Northwestern University**

September 2023 - June 2024

*Project Strengthen*

- Supervisors: Greg Friedman, Ph.D., Richard Zinbarg, Ph.D. & Shari Rogers, LCSW
- Supervision: Weekly individual supervision lasting 30 minutes per case.
- Primary patient populations: Adolescents and adults (ages 17-30) with a history of exposure to traumatic experiences from low-income or minoritized backgrounds (e.g., Black, LGBTQIA). Diagnoses included Post-Traumatic Stress Disorder, Major Depressive Disorder, Social Anxiety Disorder, Generalized Anxiety Disorder, specific phobias, Bipolar II Disorder, and Depersonalization/Derealization Disorder.
- Implemented the Unified Protocol and humanistic approaches to address concerns related to traumatic stress, anxiety, and depression using a co-therapy model with supervisors. Covered content such as psychoeducation, behavioral activation, motivational interviewing, ARC, emotion identification, coping skills, cognitive flexibility, exposures, and interpersonal effectiveness.

**The Family Institute, Northwestern University**

September 2023 - June 2024

*Child Cognitive Behavioral Therapy Practicum*

- Supervisor: Benjamin Rosen, Ph.D.
- Supervision: Weekly group supervision for one hour.
- Primary patient populations: Children and adolescents (ages 9-16) with a history of exposure to traumatic experiences or behavioral problems.
- Implemented modules from Cognitive Behavioral Therapy and Parent-Child Interaction Therapy. Covered content such as Special Time, emotion identification, and emotion regulation.

**The Family Institute, Northwestern University**

September 2022 - June 2024

*Adult Cognitive Behavioral Therapy Practicum*

- Supervisor: Jonathan Sutton, Ph.D.
- Supervision: Weekly group supervision for 3 hours.
- Primary patient populations: Adults (ages 22-66) from low-income and minoritized backgrounds (e.g., Black, Latino, LGBTQIA). Diagnoses included Major Depressive Disorder, Persistent Depressive Disorder, Social Anxiety Disorder, Generalized Anxiety Disorder, Separation Anxiety Disorder, Panic Disorder, specific phobias, Bipolar II Disorder, and Depersonalization/Derealization Disorder.
- Implemented the Unified Protocol for cases of anxiety and depression. Covered content such as safety planning, psychoeducation, behavioral activation, motivational interviewing, ARC (antecedent, response, consequence), emotion identification, coping skills, cognitive flexibility, exposures, and interpersonal effectiveness.

**Department of Psychology, Northwestern University**

August 2022 - September 2023

*Assessment Practicum*

- Supervisors: Richard Zinbarg, Ph.D. & Vijay Mittal, Ph.D.
- Supervision: Weekly group supervision for 2-3 hours.
- Primary patient populations: Adults (ages 21-65) from low-income and minoritized backgrounds (e.g., Black, Latino, LGBTQIA). Diagnoses included Major Depressive Disorder, Persistent Depressive Disorder, Social Anxiety Disorder, Generalized Anxiety Disorder, Separation Anxiety Disorder, Panic Disorder, Post-Traumatic Stress Disorder, Specific Phobia, Hoarding Disorder, Alcohol Use Disorder, and Attention-Deficit/Hyperactivity Disorder.
- Diagnosed mental disorders using the Structured Clinical Interview for DSM-5 (SCID-5); interpreted the Minnesota Multiphasic Personality Inventory-2-Restructured Form (MMPI-2-RF) and the Shipley-2; wrote integrative reports; assessed for psychosis risk using the Structured Interview for Psychosis-Risk Syndromes (SIPS) and the Negative Symptom Inventory-Psychosis Risk (NSI-PR); and conducted neurocognitive tests (i.e., WRAT4, HVLT, BACS).

## MANUSCRIPTS: PEER REVIEWED

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1. **Butler, E.R.**, Samia, N.I., Mejia, A.F., Pham, D.D., Pines, A., & Nusslock, R. (2025). Sex differences in response to violence: Role of salience network expansion and connectivity on depression. *Translational Psychiatry*, 15(1), 427. <https://rdcu.be/eLYg6>
2. Calkins, M.E., **Butler, E.R.**, Moore, T.M., Ered, A., Taylor, J., White, L.K., Barzilay, R., Ruparel, K., Larsen, B., Shahriar, S., Dietterich, T., Roalf, D., Wolf, D.H., Satterthwaite, T.D., Gur, R.C., & Gur, R.E. (2025). Longitudinal trajectories of clinical features in community youth with recurrent psychosis spectrum symptoms: Findings from the Philadelphia Neurodevelopmental Cohort. *Schizophrenia Bulletin*, sbaf075. <https://bit.ly/3FLvWpT>
3. Halchenko, Y.O., Goncalves, M., Ghosh, S., Velasco, P., di Castello, M.V.O., Salo, T., ... **Butler, E.R.**, ... & Kennedy, D.N. (2024). HeuDiConv—flexible DICOM conversion into structured directory layouts. *Journal of Open Source Software*, 9(99), 5839. <https://bit.ly/3VMH4Xi>
4. **Butler, E.R.**, Samia, N.I., White, S., Gratton, C., & Nusslock, R. (2024). Neuroimmune mechanisms connecting violence with internalizing symptoms: A high-dimensional multimodal mediation analysis. *Human Brain Mapping*, 45(2), e26615. [bit.ly/30tRqZi](https://bit.ly/30tRqZi)
5. Scott, J.C.\*., Moore, T.M.\*., Roalf, D.R., Satterthwaite, T.D., Wolf, D.H., Port, A.M., **Butler, E.R.**, Ruparel, K., Nievergelt, C.M., Risbrough, V.B., Baker, D.G., Gur, R.E., & Gur, R.C. (2023). Development and application of novel performance validity metrics for computerized neurocognitive batteries. *Journal of the International Neuropsychological Society*, 29(8), 789-797. [bit.ly/48VbzPR](https://bit.ly/48VbzPR)
6. Adebimpe, A., Bertolero, M., Douli, S., Cieslak, M., Murtha, K., Baller, E., **Butler, E.R.**, Cook, P., Colcombe, S., Covitz, S., Davatzikos, C., Davila, D., Flounders, M., Elliott, M.A., Franco, A., Gur, R.E., Gur, R.C., Jaber, B., McMillian, C., Milham, M., Mutsaerts, H., Oathes, D.J., Olm, D., Phillips, J., Tackett, W., Roalf, D.R., Tapera, T.M., Tisdall, M.D., Esteban, O., Poldrack, R., Detre, J.A., & Satterthwaite, T.D. (2022). ASLPrep: a platform for processing of arterial spin labeled MRI and quantification of regional brain perfusion. *Nature Methods*, 19(6), 683-686. [bit.ly/425zUQL](https://bit.ly/425zUQL)
7. Tapera, T.M., Cieslak, M., Bertolero, M., Adebimpe, A., Aguirre, G.K., **Butler, E.R.**, Cook, P.A., Davila, D., Elliott, M.A., Linguiti, S., Murtha, K., Tackett, W., Detre, J.A., & Satterthwaite, T. (2021). FlywheelTools: data curation and manipulation on the Flywheel platform. *Frontiers in neuroinformatics*, 15, 678403. [bit.ly/3TXAWfL](https://bit.ly/3TXAWfL)
8. **Butler, E.R.**, Chen, A., Ramadan, R., Le, T.T., Ruparel, K., Moore, T.M., Satterthwaite, T.D., Zhang, F., Shou, H., Gur, R.C., Nichols, T.E.\*., & Shinohara, R.T.\* (2021). Pitfalls in brain age analyses. *Human brain mapping*, 42(13), 4092-4101. [bit.ly/3U5dTzA](https://bit.ly/3U5dTzA)
9. Moore, T.M.\*., Calkins, M.E.\*., Rosen, A.F.G., **Butler, E.R.**, Ruparel, K., Fusar-Poli, P., Koutsouleris, N., McGuire, P., Cannon, T.D., Gur, R.C., & Gur, R.E. (2021). Development of a probability calculator for psychosis risk in children, adolescents, and young adults. *Psychological medicine*, 52(14), 3159-3167. [bit.ly/38PHepB](https://bit.ly/38PHepB)
10. Gur, R.C., **Butler, E.R.**, Moore, T.M., Rosen, A.F.G., Ruparel, K., Satterthwaite, T.D., Roalf, D.R., Gennatas, E.D., Bilker, W.B., Shinohara R.T., Port, M., Elliott, M.A., Verma, R., Davatzikos, C., Wolf, D.H., Detre, J.A., & Gur, R.E. (2021). Structural and functional brain parameters related to cognitive performance across development: Replication and extension of the parieto-frontal integration theory in a single sample. *Cerebral cortex*, 31(3), 1444-1463. [bit.ly/3aEgN7Z](https://bit.ly/3aEgN7Z)
11. Moore, T.M., **Butler, E.R.**, Scott, J.C., Port, A.M., Ruparel, K., Njokweni, L.J., Gur, R.E., & Gur, R.C. (2020). When CAT is not an option: Complementary methods of test abbreviation for neurocognitive batteries. *Cognitive neuropsychiatry*, 26(1), 35-54. [bit.ly/3nAtVOZ](https://bit.ly/3nAtVOZ)
12. Morean, M.E. & **Butler, E.R.** (2019). The Medical Cannabis Expectancy Questionnaire: Adult medical marijuana users' expectancies associated with combustible, vaporized, and edible cannabis use for medical purposes. *Cannabis*, 2, 1-18. [bit.ly/2NTGLYX](https://bit.ly/2NTGLYX)

13. Morean, M.E., L'Insalata, A., **Butler, E.R.**, McKee, A., & Krishnan-Sarin, S. (2018). Age at drinking onset, age at first intoxication, and delay to first intoxication: Assessing the concurrent validity of measures of drinking initiation with alcohol use and related problems. *Addictive behaviors*, 79, 195-200. [bit.ly/30wIhoE](https://doi.org/10.1016/j.addbeh.2018.02.015)
14. Morean, M.E., **Butler, E.R.**, Bold, K.W., Kong, G., Camenga, D.R., Cavallo, D.A., Simon, P., & Krishnan-Sarin, S. (2018). Preferring more e-cigarette flavors is associated with e-cigarette use frequency among adolescents but not adults. *PloS one*, 13(1), e0189015. [bit.ly/2NyJBST](https://doi.org/10.1371/journal.pone.0189015)

## MANUSCRIPTS: IN PREPARATION

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1. **Butler, E.R.**, Alloy, L.B., Insel, C., Suárez, L., Samia, N.I., Mejia, A.F., & Nusslock, R. (in preparation). Instability and threat differentially put males and females at risk for depression through brain network expansion and connectivity.
2. **Butler, E.R.**, Alloy, L.B., Pham, D.D., Samia, N.I., Nusslock, R. & Mejia, A.F. (in preparation). Utility and validity of group atlas versus personalized functional network approaches. <https://osf.io/pd6kz/>
3. **Butler, E.R.**, Tipton, E., Samia, N.I., Mejia, A.F., Suárez, L., Insel, C., & Nusslock, R. (in preparation). Causal inference in developmental psychopathology and human neuroscience.
4. Da Silva Sanchez, N., Pham, D.D., **Butler, E.R.**, Nebel, M.B., & Mejia, A.F. (in preparation). Bayesian brain mapping: Fast and accurate individualized functional topography and connectivity with established population-derived priors.
5. Wu, Y., Lindquist, M., **Butler, E.R.**, & Mejia, A.F. (in preparation). Motion as a mediator in brain-behavior connections.

## CONFERENCE POSTER PRESENTATIONS

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1. **Butler, E.R.**, Alloy, L.B., Pham, D.D., Samia, N.I., Nusslock, R. & Mejia, A.F. (May 2026). Utility and validity of group atlas versus personalized functional network approaches. Poster to be presented at the annual meeting of the Society of Biological Psychiatry, New York City, NY.
2. **Butler, E.R.**, Alloy, L.B., Pham, D.D., Samia, N.I., Nusslock, R. & Mejia, A.F. (September 2025). Utility and validity of group atlas versus personalized functional network approaches. Poster presented at the annual meeting of Flux, Dublin, Ireland.
3. **Butler, E.R.**, Samia, N.I., Mejia, A.F., Pham, D.D., Pines, A., & Nusslock, R. (April 2025). Sex differences in response to violence: role of the salience network in the development of depression. Poster presented at the Developmental Sciences Graduate Cluster Symposium, Evanston, IL.
4. **Butler, E.R.**, Samia, N.I., Mejia, A.F., Pham, D.D., Pines, A., & Nusslock, R. (September 2024). Sex differences in response to violence: role of the salience network in the development of depression. Poster presented at the annual meeting of Flux, Baltimore, MD.
5. **Butler, E.R.**, Chen, R., Miller, G.E., & Nusslock, R. (July 2023). Sex differences in response to violence: potential role of the ventral attention network. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Montreal, Canada.
6. **Butler, E.R.**, Miller, G.E., Samia, N.I., & Nusslock, R. (June 2022). Violence and internalizing symptoms association explained by inflammation and amygdala connectivity. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Glasgow, Scotland.
7. Adebimpe, A., Bertolero, M., Douli, S., Cieslak, M., Murtha, K., Baller, E., **Butler, E.R.**, Cook, P., Colcombe, S., Covitz, S., Davatzikos, C., Davila, D., Flounders, M., Elliott, M.A., Franco, A., Gur, R.E., Gur, R.C., Jaber, B., McMillian, C., Milham, M., Mutsaerts, H., Oathes, D.J., Olm, D., Phillips, J., Tackett, W., Roalf, D.R., Tapera, T.M., Tisdall, M.D., Esteban, O., Poldrack, R., Detre, J.A., & Satterthwaite, T.D. (June 2021). ASLPrep: A generalizable workflow for processing of arterial spin labeled MRI and quantification of brain perfusion. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Virtual.

8. Calkins, M.E., **Butler, E.R.**, Moore, T.M., Ruparel, K., Wolf, D.H., Satterthwaite, T.D., Gur, R.C., & Gur, R.E. (April 2021). Longitudinal trajectories of psychosis spectrum symptoms in community youth: findings from the Philadelphia Neurodevelopmental Cohort (PNC). Poster presented at the annual meeting of the Society of Biological Psychiatry, Virtual.
9. Scott, J.C., Moore, T.M., Roalf, D.R., Satterthwaite, T.D., Wolf, D.H., Port, A.M., **Butler, E.R.**, Ruparel, K., Nievergelt, C.M., Risbrough, V.B., Baker, D.G., Gur, R.E., & Gur, R.C. (February 2021). Development and application of novel, data-driven performance validity metrics for computerized neurocognitive batteries. Talk presented at the International Neuropsychological Society Annual Conference, San Diego, CA (virtual).
10. **Butler, E.R.**, Chen, A., Ramadan, R., Ruparel, K., Moore, T.M., Zhang, F., Shou, H., Gur, R.C., Nichols, T.E.\* & Shinohara, R.T.\* (June 2020). Statistical pitfalls in brain age analyses. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Virtual.
11. Morean, M.E., **Butler, E.R.**, Bold, K., Kong, G., Camenga, D., Cavallo, D., Simon, P. & Krishnan-Sarin, S. (March 2017). Preference for more e-cigarette flavors is associated with e-cigarette use frequency among youths but not adults. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco.
12. Morean, M.E., **Butler, E.R.**, Bold, K., Kong, G., Camenga, D., Cavallo, D., Simon, P. & Krishnan-Sarin, S. (November 2016). Preference for more e-cigarette flavors is associated with e-cigarette use frequency among youths but not adults. Poster presented at the annual Tobacco Regulatory Science Conference.

\* Denotes equal contribution

## CERTIFICATIONS

<b>Trauma-Focused Cognitive Behavioral Therapy (TF-CBT)</b>	July 2024 - June 2025
<ul style="list-style-type: none"> <li>• Supervisors: Liza Suárez, Ph.D. &amp; Susana Rivera, Ph.D.</li> <li>• Completed the TF-CBT training course and participated in the TF-CBT supervision as required by the TF-CBT Certification Program.</li> </ul>	
<b>Structured Interview for Psychosis-Risk Syndromes (SIPS)</b>	August 2022
<ul style="list-style-type: none"> <li>• Supervisor: Vijay Mittal, Ph.D.</li> <li>• Completed SIPS/SOPS training in accordance with the standards established by the PRIME Research Clinic at Yale University.</li> </ul>	

## INVITED TALKS

1. <i>Addressing how adversity impacts the brain to lead to mental illness</i> for the Masonic Institute for the Developing Brain at the University of Minnesota	November 2025
2. <i>Addressing how adversity impacts the brain to lead to mental illness</i> for the CIRCLE Lab at the University of North Carolina - Chapel Hill	November 2025
3. <i>Career talk about my journey as a clinical psychologist in training</i> for the University of Chicago Laboratory High School	October 2025
4. <i>Sex differences in response to violence: role of the salience network in the development of depression</i> for Northwestern University's Clinical Area Proseminar	May 2025
5. <i>Traumatic Experiences: From Neurobiology to Interventions</i> for University of Illinois at Chicago's Psychiatry Grand Rounds	March 2025
6. <i>Trauma Focused - Cognitive Behavioral Therapy</i> for Northwestern's Undergraduate Cognitive Behavioral Therapy course	March 2025
7. <i>Psychology: Inside Diagnosis and Treatment</i> for Northwestern Pre-College	August 2024
8. <i>Creating your academic online presence</i> for psychology graduate students	January 2024
9. <i>Clinical Psychology Research</i> for undergraduate Research Methods course	January 2023

10. <i>Neuroimmune mechanisms connecting violence exposure and internalizing symptoms</i> for the Adolescent Development and Preventive Treatment Program	January 2023
11. <i>Neuroimmune mechanisms connecting violence exposure and internalizing symptoms</i> for Northwestern University's Clinical Area Proseminar	November 2022
12. <i>Statistical Computing in R</i> for The Emory-Tibet Science Initiative	October 2022
13. <i>Medical Cannabis Expectancies Questionnaire</i> for Oberlin Senior Symposium	April 2018

## REVIEWING EXPERIENCE

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1. Ad hoc reviewer for <i>Scientific Reports</i>	April 2025
2. Ad hoc reviewer for the <i>Journal of the American Statistical Association</i>	March 2023
3. Ad hoc reviewer for <i>eLife</i>	March 2023
4. Ad hoc reviewer for <i>Brain and Behavior</i>	June 2022
5. Ad hoc reviewer for <i>Human Brain Mapping</i>	February 2022
6. Ad hoc reviewer for <i>Neurobiology of Aging</i>	August 2021
7. Ad hoc reviewer for <i>Biological Psychiatry</i>	February 2021
8. Ad hoc reviewer for <i>The American Journal of Psychiatry</i>	January 2021
9. Ad hoc reviewer for <i>Substance Use and Misuse</i>	November 2017

## TEACHING EXPERIENCE

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<b>Northwestern University, Evanston, IL</b> <i>Instructor — Research Methods in Psychology</i>	March 2024 - June 2024
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- Co-Instructor: Diana Perez Rivera, M.S.
- Course description: This course served as an introduction to using scientific methods to address psychological questions. Through readings, lectures, discussion, and hands-on experiment design and data collection, students learned about the scientific approach to research design and about the analysis and interpretation of data. The course focused on how to formulate research questions and evaluate research claims in everyday life. Students generated their own research projects while learning about different aspects of experimental design, including how to select participants, choose independent and dependent variables, control for confounding variables, and consider ethical and equitable research practices. This course also helped students learn to communicate research results in the style used by psychologists through presentations and research reports.
- Responsibilities: Designed and taught a course for 21 undergraduate students. Students were evaluated via multiple choice quizzes, paper writing, and presentations, for which we gave extensive feedback.

<b>Northwestern University, Evanston, IL</b> <i>Teaching Assistant — Psychopathology</i>	March 2022 - June 2022
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- Supervisor: Vijay Mittal, Ph.D.
- Course description: This course involved the study of the nature, diagnosis, and the treatment of psychiatric illness such as anxiety disorders, personality disorders, affective disorders, addiction, eating disorders, and psychosis. Throughout the process of attending lectures, completing readings, and preparing for tests/assignments, students were exposed to a wide variety of mental disorders, and also formed an in-depth understanding of how we conceptualize and treat these constructs.
- Responsibilities: Graded and provided feedback on papers and tests, and held office hours and review sessions.

<b>Northwestern University, Evanston, IL</b> <i>Teaching Assistant — Evaluating Evidence</i>	January 2022 - March 2022
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- Supervisors: Onnie Rogers, Ph.D. & Mary McGrath, Ph.D.

- Course description: This course discussed how to evaluate the evidence of others – and how to marshal your own – across social science, politics, society, health, education, psychology and industry. The course provided an overview of three types of evidence: the type of qualitative interviews that social scientists use to understand human psychology and the experience of racial bias and discrimination; observational data, collected by observing and measuring the world as it is; and experimental data, collected by designing and conducting a randomized controlled trial. Assignments and readings focused on real-world questions drawn from newspaper articles, podcasts, and op-eds, as well as the research literature and data science media that collect and evaluate empirical evidence.
- Responsibilities: Graded and provided feedback on lecture questions, quizzes, and qualitative and quantitative data collection and analysis.

**Northwestern University, Evanston, IL**  
*Teaching Assistant — Statistical Methods in Psychology*

September 2021 - December 2021

- Supervisor: Michael Bailey, Ph.D.
- Responsibilities: Graded, provided feedback on, and helped with statistics and JMP.

## PROFESSIONAL SERVICE

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**Flux Society, Remote**  
*Member - Trainee Committee*

January 2025 - present

- Supervisors: Jessica Cohen, Ph.D. & Nim Tottenham, Ph.D.
- Responsibilities: Plan events and workshops for trainees at the annual Flux conference. Co-organized the grant writing panel, which involved identifying and inviting guest speakers, co-ordinating content, ensuring relevance to an international audience, and moderating the event.

**Northwestern University, Evanston, IL**  
*Volunteer - Psychology Department*

September 2022 - present

- Supervisor: Jennifer Tackett, Ph.D., Robin Nusslock, Ph.D., & Dan Mroczek, Ph.D.
- Responsibilities: Organize social events among graduate students and postdoctoral fellows to foster a sense of community for the Clinical Area Social Engagement Committee; provide mentorship to Clinical Psychology PhD students through the First Year Mentorship program; and provide feedback on the Department of Psychology's graduate statistics sequence and redesign the Quantitative Certificate requirements as part of the Statistics Evaluation Committee.

**Northwestern University, Evanston, IL**  
*Member - Developmental Science Research Resources Workgroup*

September 2021 - June 2022

- Supervisor: Lauren Wakschlag, Ph.D.
- Responsibilities: Collaborated with students, postdocs and faculty across departments working on developmental science to identify research resources that will help foster interdisciplinary research.

**Northwestern University, Evanston, IL**  
*Reviewer - Sneak Peak*

April 2022

- Supervisor: Jennifer Tackett, Ph.D.
- Responsibilities: Reviewed applications for a program designed to provide information and access to resources that are helpful in pursuing graduate programs in psychology.

**Application Statement Feedback Program, Remote**  
*Editor*

September 2021

- Supervisor: Peter Sokol-Hessner, Ph.D.
- Responsibilities: Provided feedback on under-represented students' statements for applications to Ph.D. programs in psychology and neuroscience.

## HONORS AND AWARDS

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1. Second Place Poster (\$100) at the DevSci Symposium at Northwestern University April 2025
2. Finalist for the Presidential Fellowship at Northwestern University April 2025
3. Honorable Mention from the NSF Graduate Research Fellowship Program March 2021
4. Nominated member of Phi Beta Kappa April 2018
5. Nominated member of Sigma Xi, The Scientific Research Society March 2018
6. Nominated member of Pi Kappa Lambda, The National Music Honor Society February 2018

## COURSEWORK

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### Neuroscience & Psychology

Biological and Cognitive Bases of Behavior, Clinical Assessment, Health Bases of Psych., Responsible Conduct of Research, Cognitive Neuroscience of Memory, Psychopathology, Personality, Psychotherapy, Research Methods in Clinical Psych., Child and Adolescent Development, Social Emotional Brain

### Statistics

Multivariable Calculus, Discrete Mathematics, Linear Algebra, Probability Theory, Mathematical Statistics, Bayesian Data Analysis, Statistical Theory and Methods I-III, Regression, Psychometric Theory, Generalized Linear Models, Causal Inference, Nonparametric Statistics, Social Network Analysis

## WORK EXPERIENCE

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### University of Pennsylvania, Philadelphia, PA

June 2018 - August 2021

*Data Analyst — Brain Behavior Laboratory*

- Principal Investigator: Ruben Gur, Ph.D.
- Mission ⇒ The lab aims to characterize clinical, cognitive and neurobiological trajectories of youth on the psychosis spectrum, and to uncover the biological bases of behavior more broadly in part through improving the measurement of pertinent domains.
- Statistics, Visualization and Communication ⇒ Translated research questions into testable hypotheses, utilized machine learning and Bayesian methods for prediction, communicated results to investigators using informative graphics, and wrote methods and results sections for manuscripts.
- Neuroimaging ⇒ Pre-processed T1-weighted, diffusion, and functional images using a variety of software packages, and built a series of Docker images to process longitudinal structural data.
- Psychometrics ⇒ Utilized factor analysis and item response theory to explore psychometric properties and score cognitive and clinical assessments, and assessed the validity of various administration strategies for the Penn Computerized Neurocognitive Battery.
- Management ⇒ Organized meetings to discuss data and teach junior staff about data analysis.

### Momentum@Work, Austin, TX

December 2019 - January 2020

*Consulting Statistician*

- Collaborator: Allison Brenner, M.A.
- Responsibilities: Performed psychometric analyses and wrote summary of results to help determine efficacy of evaluation for potential Foreign Service members.

### Oberlin College, Oberlin, OH

August 2017 - December 2017

*Grader — Introduction to Biostatistics, Mathematics Department*

- Supervisor: Jeffrey Witmer, Ph.D.
- Responsibilities: Graded and provided feedback on biostatistics homework.

### Children's Hospital of Philadelphia, Philadelphia, PA

June 2016 - August 2016

*NSF REU Intern — Center for Injury Research and Prevention*

- Principal Investigator: Joel Fein, M.D., M.P.H.

- Responsibilities: Conducted research with Dr. Nancy Kassam-Adams on parent-child PTSD symptom agreement and severity. Shadowed Violence Intervention Program case managers and reviewed surveillance data to identify incidents of assaults on school property. Wrote a blog post on the mental health needs of children with incarcerated parents: <https://bit.ly/3bkgU5V>

**Oberlin College, Oberlin, OH**

February 2016 - May 2016

*Teaching Assistant — Research Methods II, Psychology Department*

- Supervisor: Travis Wilson, Ph.D.
- Responsibilities: Held office hours, graded daily quizzes, and assisted students during lab.

**Oberlin College, Oberlin, OH**

October 2015 - December 2017

*Tutor — Student Academic Services*

- Courses: Introduction to Neuroscience, Statistical Modeling, Calculus I-III, Research Methods I-II, Aural Skills 1-IV, Music Theory I-IV

## COMMUNITY SERVICE

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**Oberlin College, Oberlin, OH**

October 2018 - present

*Alumni Volunteer*

- Responsibilities: Interview prospective students, attend recruitment events, provide career counseling for current students, and plan events for alumni in the Chicago area.

**RefugeeOne, Chicago, IL**

February 2022 - May 2024

*Mentor*

- Supervisor: Jamie Corliss, M.A.
- Responsibilities: 1) Mentored teenagers who are refugees from Afghanistan and Sudan by helping with homework, and integrating them into the community; 2) Organized a panel for refugees on graduate school spanning psychology, medicine, statistics, engineering and computer science; and 3) Provided mentorship to refugees as they are considering whether to attend graduate school.

**Tutoring Chicago, Chicago, IL**

September 2021 - November 2021

*Mentor*

- Supervisor: Greer Hengesbaugh, M.Ed.
- Responsibilities: Helped a low-income minority student in 5<sup>th</sup> grade develop studying skills across disciplines, and to learn essential social and emotional skills.

**Collective Success Network, Philadelphia, PA**

October 2020 - December 2020

*Mentor*

- Supervisor: Alice Ginsberg
- Responsibilities: Helped a low-income, first-generation college student achieve their academic and career aspirations through providing advice and resources on preparing for graduate school.

**Mighty Writers, Philadelphia, PA**

October 2018 - June 2021

*Mentor*

- Supervisor: Christina Rissell
- Responsibilities: Helped a student from 7<sup>th</sup> through 9<sup>th</sup> grade develop writing and studying skills, and thrive through the transition to high school.

**Oberlin Community Services, Oberlin, OH**

February 2014 - May 2018

*Tutor — America Counts*

- Responsibilities: Tutored a student from 4<sup>th</sup> through 8<sup>th</sup> grade in mathematics, and provided mentorship for the student through difficult peer and familial circumstances.