

CURRICULUM VITAE

Name: Alexandra Brianne Moussa-Tooks, PhD

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Dept. of Psychological and Brain Sciences
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Bloomington, IN 47405

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EDUCATION

- 2011-2015 Vanderbilt University, College of Arts and Sciences
BA Neuroscience; Minor in Psychology; Minor in English (Literary Analysis)
- 2015-2021 Indiana University Bloomington, Department of Psychological and Brain Sciences and Program in Neuroscience
Dual PhD; Psychology (Clinical Focus); Neuroscience
Dissertation: Sex-Specific Effects of Early Life Stress on the Cerebellar Endocannabinoid System and Associated Functional Outcomes: A Foray into a Translational Animal Model
- 2020-2021 Vanderbilt University Medical Center (VUMC), Department of Psychiatry and Behavioral Sciences
Predoctoral Clinical Internship, Psychosis Emphasis Track

Postdoctoral Training

- 2021-2022 Vanderbilt University Medical Center (VUMC), Department of Psychiatry and Behavioral Sciences
APPIC Postdoctoral Fellow, Early Psychosis Program

LICENSURE AND CERTIFICATIONS

- 2021- National Provider Identifier (NPI) #1912640137
2022- Tennessee State Board of Psychology, HSP, License #3885
Indiana State Board of Psychology, HSPP, *License Pending*

ACADEMIC APPOINTMENTS

- 2022-2023 Assistant Professor of Psychiatry and Behavioral Sciences, Clinician Educator Track, Vanderbilt University Medical Center
- 2023- Adjoint Faculty, Vanderbilt University School of Medicine

2023- Assistant Professor of Psychological and Brain Sciences, Tenure Track, Indiana University
Bloomington

HOSPITAL APPOINTMENTS

2022-2023 Clinical Psychologist, Psychotic Disorders Program, Vanderbilt Adult Psychiatric
Outpatient Clinic (VAPOC), Vanderbilt University Medical Center

PROFESSIONAL ORGANIZATIONS

2015- National Alliance on Mental Illness (NAMI)
2016- Society for a Science of Clinical Psychology (SSCP)
2016- Association for Psychological Science (APS)
2016-2022 Society for Research in Psychopathology (SRP), Associate Member
2017-2019 Society for Neuroscience (SfN)
2020-2021 American Psychological Association (APA)
2022- Society for Research in Psychopathology (SRP), Full Member

PROFESSIONAL ACTIVITIES, DEPARTMENTAL SERVICE, AND LEADERSHIP

2015-2020 **Diversity Advancement Committee (DAC)**, Psychological and Brain Sciences, Indiana
University Bloomington
2018-2019 **Faculty Hiring Committee for Naus Family Endowed Chair in Addictions Research**,
Elected Representative, Psychological and Brain Sciences, Indiana University
Bloomington
2019-2020 **Executive Faculty and Curriculum Committees**, Elected Representative, Program in
Neuroscience, Indiana University Bloomington
2019-2020 **Association of American Universities (AAU) [PhD Education Initiative](#) Pilot Team**, STEM
Graduate Student Representative, Psychological and Brain Sciences, Indiana University
Bloomington
2020-2023 **Diversity, Inclusion, and Social Justice Committee (DISJC)**, Department of Psychiatry
and Behavioral Sciences, Vanderbilt University Medical Center
2022- **Travel Award Committee**, Society of Biological Psychiatry

RESEARCH PROGRAM AND FUNDING

2016/2018 **Harlan Scholar Program Summer Research Award** (internal)
PI: Moussa-Tooks; Total Award: \$5000 each year
2016 **T32 MH103213**
PI: Hetrick, Role: *Fellowship Awardee*

2016-2017, 2019-2020
Clinical Translational Science Training Fellowship. National Institute of Mental Health

2017 **TL1 TR002531/UL1 TR002529**

PI: Shekhar, Role: *Fellowship Awardee*

2017-2019

Indiana CTSI Pre-Doctoral Training in Translational Research Fellowship

2019 **Indiana CTSI Core Pilot Grant** (internal)

PI: Hetrick, Co-PI: **Moussa-Tooks**

2019, total direct costs: \$9,975

Effects of Early Life Stress on the Endocannabinoid System in Adult Rat Cerebellum

2019 **Indiana University Bloomington Faculty Research Support Funding** (internal)

PI: Hetrick, Co-PI: **Moussa-Tooks**

2019-2020, total direct costs: \$28,279

The Paradox of Cannabis Use: Towards a Mechanistic Understanding of the Interaction Between Cannabis Use and Stress Responsivity

2019 **F31 MH119767**

PI: **Moussa-Tooks**

2019-2020

Impacts of Early Life Stress on the Cerebellar Endocannabinoid System, Score: 20, 10th Percentile

2023 **K23 MH135215**

PI: **Moussa-Tooks**

Pending Funding, Applied for 2023-2028, total direct costs requested: \$754,556

Longitudinal Assessment of Distinct Motor Learning Processes to Inform Mechanistic Models of Sensorimotor Function in Psychosis

AWARDS AND HONORS

2016 Departmental Commendations, Qualifying Examination, Indiana University Bloomington, Department of Psychological and Brain Sciences

2016 Predoctoral Fellowship Honorable Mention, Ford Foundation

2016 Provost's Travel Award for Women in Science, Indiana University Bloomington

2016 President's Award, Society for Research in Psychopathology

2016 Neuroscience Travel Award Program, Indiana University Bloomington, Program in Neuroscience

2017 Graduate Research Fellowship Program (GRFP) Honorable Mention, National Science Foundation (NSF)

2017 Provost's Travel Award for Women in Science, Indiana University Bloomington

- 2017 Neuroscience Travel Award Program, Indiana University Bloomington, Program in Neuroscience
- 2019 Neuroscience Travel Award Program, Indiana University Bloomington, Program in Neuroscience
- 2019 Burroughs Wellcome Fund Trainee Travel Award, Association of Clinical Translational Science
- 2021 J.R. Kantor Graduate Award (Outstanding Advanced Graduate Student), Indiana University Bloomington, Department of Psychological and Brain Sciences

EDITING AND REVIEWING

Ad-hoc Reviewer

Molecular Psychiatry • Schizophrenia Bulletin • Schizophrenia Research • Cognitive Affective and Behavioral Neuroscience (CABN) • Biological Psychiatry: Global Open Science • Gait and Posture • Proceedings of the National Academy of Sciences of the United States of America (PNAS) • Psychiatry Research Case Reports

Conference Publications

2020- Editorial Team, Society for Research in Psychopathology Newsletter

Miscellaneous

2018-2020 Copy Editor, [SciU Blog](#), Indiana University Bloomington
2019-2020 Full Editor, [SciU Blog](#), Indiana University Bloomington

TEACHING AND MENTORING ACTIVITIES

Undergraduate Courses

- Fall 2015 Assistant Instructor (1 section, 20 students)
Seminar: *Clinical Neuroscience*
Indiana University Bloomington
3 hr/week discussion-based course, with essays
- Spring 2016 Assistant Instructor (1 section, 40 students)
Seminar: *Behavioral Modification*
Indiana University Bloomington
3 hr/week project-based course, with exams
- Fall 2018 Instructor of Record (2 simultaneous sections, 20 students each)
Seminar + Lab: *Introduction to Research Methods in Psychology (PSY P211)*
Indiana University Bloomington
2 hr/week lab-based course, with exams, projects, and discussion groups

- Spring 2019 Invited Guest Lecturer (1 lecture)
Careers in Psychology
Indiana University Bloomington
- Fall 2019 Invited Guest Lecturer (1 lecture)
Psychopathology
Indiana University Bloomington
- Fall 2023- Instructor of Record (1 section, 60 students)
Lecture: *Abnormal Psychology (PSY P324)*
Indiana University Bloomington
2.5 hr/week lecture-based course with exams

Resident Training

- Annual 2021- Didactic Speaker (1 lecture, PGY1 Residents)
Cultural Humility in Clinical Practice Part 1: What Is Humility & Assessing Culture
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2021- Didactic Speaker (1 lecture, PGY2 Residents)
Cultural Humility in Clinical Practice Part 2: Cultural Integration in CBT
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2021- Didactic Speaker (1 lecture, PGY3 Residents)
Cultural Humility in Clinical Practice Part 3: Cultural Integration in ACT and DBT
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2021- Didactic Speaker (1 lecture, PGY4 Residents)
Cultural Humility in Clinical Practice Part 4: Barriers and Bridges
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2021- Didactic Speaker (1 lecture, PGY3 Residents)
Cognitive Behavioral Therapy for Insomnia (CBTi): Theory and Strategy
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2021- Didactic Speaker (1 lecture, PGY3 Residents)
Cognitive Behavioral Therapy for Insomnia (CBTi): Clinical Illustrations
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2023- Didactic Speaker (1 lecture, PGY4 Residents)
Cognitive Behavioral Therapy for Bipolar Disorder: Theory and Strategy
Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences
- Annual 2023- Didactic Speaker (1 lecture, PGY4 Residents)
Cognitive Behavioral Therapy for Bipolar Disorder: Clinical Illustrations

Vanderbilt University Medical Center, Department of Psychiatry and Behavioral Sciences

Clinical Psychology Training

- 2019 Peer Supervisor
CBT Research and Training Clinic, Indiana University Bloomington
Outpatient psychotherapy for anxiety and depression (2 supervisees, 2 cases each)
- Annual 2021- Clinical Supervisor, Predoctoral Clinical Internship (1 supervisee/yr)
Psychosis Emphasis Track, Department of Psychiatry and Behavioral Sciences
Vanderbilt University Medical Center (VUMC)
- Annual 2022- Clinical Supervisor, Postdoctoral Fellow (1 supervisee/yr)
Early Psychosis Program, Department of Psychiatry and Behavioral Sciences
Vanderbilt University Medical Center (VUMC)

Invited Talks

- 2014 *Neurobiology of Antisocial Personality Disorder*, Cornerstone Counseling Center of Chicago. Chicago, IL
- 2016 *Impacts of Early Life Stress on Neurodevelopment: Alterations in Cerebellar Endocannabinoid System Dynamics after Limited Bedding in Rats*, Clinical Science Colloquium Series, Indiana University Bloomington. Bloomington, IN
- 2017 *CBT for Bipolar Disorder*, Clinical Science Colloquium Series, Indiana University Bloomington. Bloomington, IN
- 2018 *Moving from Categories to Constructs: Reflections from NIH RDoC Training Meeting*, Clinical Science Colloquium Series, Indiana University Bloomington. Bloomington, IN
- 2020 *Uncovering Roles of the Cerebellum in Risk for Atypical Development*, Developmental Neuroimaging Seminar, Washington University, Department of Child Psychiatry. St. Louis, MO
- 2021 *Uncovering Roles of the Cerebellum in Risk for Psychosis*, Neuroscience Departmental Brown Bag, Vanderbilt University. Nashville, TN
- 2021 *Cognitive Behavioral Therapy for Insomnia (CBTi): Targeted Strategies for Acute and Outpatient Settings*, Social Work Grand Rounds (SWGR), Vanderbilt University Medical Center. Nashville, TN
- 2023 *Uncovering Roles of the Cerebellum in Risk for Atypical Development*, Washington University, Department of Psychological and Behavioral Science. St. Louis, MO

2023 *Uncovering Roles of the Cerebellum in Risk for Atypical Development*, Indiana University
Bloomington, Department of Psychiatry and Behavioral Sciences. Bloomington, IN

Mentored Students and Trainees

- 2015-2017 Abinand Rejimon (undergraduate, honors student)
Projects: Effects of Cerebellar tDCS Stimulation on Postural Sway
Effects of Cerebellar tDCS on Glutamate Transmission (*honors thesis*)
- 2015-2017 Jessica Mitroi (undergraduate, honors student)
Project: Effects of Cerebellar tDCS Stimulation on Eye-Blink Conditioning (*honors thesis*)
- 2016-2017 Lisa Bartolomeo, BS (post-Baccalaureate)
- 2016-2020 Leah Burroughs (undergraduate, honors student)
Projects: Effects of Cerebellar tDCS on Glutamate Transmission (MRS)
Side Effects of Cerebellar tDCS
Electric Field Mapping of Cerebellar tDCS
- 2017-2019 John Chen (undergraduate, honors student)
Project: Effects of Cerebellar tDCS Stimulation on the Pinocchio Illusion (*honors thesis*)
- 2017-2020 Eric Larson (undergraduate, honors student)
Projects: The Paradox of Cannabis Use: Towards A Mechanistic Understanding of the
Interaction Between Cannabis Use and Stress Responsivity (*honors thesis*)
- 2017-2020 Alex Gimeno (undergraduate, honors student)
Projects: Effects of Early Life Stress on Endocannabinoid Dynamics in Hippocampus
Review of Genetic Markers in Psychosis and their Role in Disorder Phenotype
Management of Big Data for a Biotype-Based Analysis of Psychosis
- 2021-2023 Lauren Hall, BA (post-Baccalaureate)
Projects: The Impact of Race on Delusional Ideation in a Subclinical Population
Social Engagement, Delusional Ideation, and Internalizing Symptoms
- 2022-2023 Katie Gibbs, BS (post-Baccalaureate)
Projects: Hippocampal Volume Deficits in Affective and Non-Affective Psychosis
- 2023-present Lipika Narisetti (undergraduate)
Projects: Movement and Body-Based Interventions in Psychosis

PUBLICATIONS

**indicates mentee*

Peer-Reviewed Original Articles

1. Nackenoff, A., **Moussa-Tooks, A.**, McMeekin, A., Veenstra-VanderWeele, J., Blakely, R. (2016) Essential contributions of serotonin transporter inhibition in the acute and chronic actions of fluoxetine and citalopram in the SERT Met172 mouse. *Neuropsychopharmacology*, *41*(7), 1733-1741. doi:10.1038/npp.2015.335; PMID: 26514584
2. **Moussa-Tooks, A.**, Kim, D., *Bartolomeo, L., Purcell, J., Bolbecker, A., Newman, S., O'Donnell, B., & Hetrick, W. (2019) Impaired effective connectivity in schizophrenia during continuation of cerebellar-mediated sensorimotor synchronization. *Schizophrenia Bulletin*, *45*(3), 531-541. doi:10.1093/schbul/sby064; PMID: 29800417
3. *Mitroi, J., *Burroughs, L., **Moussa-Tooks, A.**, Bolbecker, A., Lundin, N., O'Donnell, B., & Hetrick, W. (2020) Dose and Polarity Independent Modulation of Cerebellar Timing Using Transcranial Direct Current Stimulation. *The Cerebellum*. doi:10.1007/s12311-020-01114-w; PMID: 32036562
4. Kim, D. J., **Moussa-Tooks, A.**, Bolbecker, A., Aphthorp, D., Newman, S., O'Donnell, B., Hetrick W. (2020) Cerebellar-Cortical Dysconnectivity in Resting-State Associated with Sensorimotor Tasks in Schizophrenia. *Human Brain Mapping*. doi:10.1002/hbm.25002; PMID: 32250008
5. *Chen, J., Purcell, J., **Moussa-Tooks, A.**, & Hetrick, W. (2020) Psychometric Evaluation of the Pinocchio Illusion Questionnaire. *Attention, Perception, & Psychophysics*. doi:10.3758/s13414-020-02011-4; PMID: 32185641
6. **Moussa-Tooks, A.**, Bailey, A., Bolbecker, A., Viken, R., O'Donnell, B., & Hetrick, W. (2020) Bifactor Structure of the Schizotypal Personality Questionnaire Across the Schizotypy Spectrum. *Journal of Personality Disorders*, *34*, 466-491. doi:10.1521/pedi_2020_34_466; PMID: 32039649
7. **Moussa-Tooks, A.**, *Larson, E., *Gimeno, A., Leishman, E., *Bartolomeo, L., Bradshaw, H., O'Donnell, B., Mackie, K., Hetrick, W. (2020) Long-Term Aberrations to Cerebellar Endocannabinoids Induced by Early Life Stress. *Scientific Reports*, *10*(1). doi:10.1038/s41598-020-64075-4; PMID: 32350298
8. **Moussa-Tooks, A.**, Hetrick, W., Green, J. (2020) Differential Effects of Two Early Life Stress Paradigms on Cerebellar-Dependent Delay Eyeblink Conditioning. *Neurobiology of Stress*, *13*. doi:10.1016/j.ynstr.2020.100242; PMID: 33344698
9. Bailey, A., **Moussa-Tooks, A.**, Klein, S., Sponheim, S., & Hetrick, W. (2021) The Sensory Gating Inventory-Brief. *Schizophrenia Bulletin Open*, *2*(1). doi:10.1093/schizbullopen/sgab019; PMID: 34414372
10. Lundin, N., Kim, D. J., Tullar, R., **Moussa-Tooks, A.**, Kent, J., Newman, S., Purcell, J., Bolbecker, A., O'Donnell, B., Hetrick W (2021). Cerebellar Activation Deficits During Delay Eyeblink Conditioning in Schizophrenia. *Schizophrenia Bulletin Open*, *2*(1). doi:10.1093/schizbullopen/sgab040; PMID: 34541537
11. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Heckers, S., & Woodward, N. (2022) Cognitive Ability and Cerebellar Volume in Psychosis. *Biological Psychiatry*. doi: 10.1016/j.biopsych.2022.03.013; PMID: 35680432
12. Purcell, J., Brown, J., Tullar, R., Bloomer, B., Kim, D.J., **Moussa-Tooks, A.**, Dolan-Bennet, K., Bangert, B., Wisner, K., Lundin, N., O'Donnell, B., Hetrick, W. (2023) Insular and Striatal Correlates of Uncertain Risky Reward Pursuit in Schizophrenia. *Schizophrenia Bulletin*. doi: 10.1093/schbul/sbac206; PMID: 36869757

13. *Larson, E., **Moussa-Tooks, A.**, Tullar, R., Bolbecker, A., O'Donnell, B., Hetrick, W., & Wisner, K. (2023) Sex Differences in Neuroendocrine, Sympathetic Nervous System, and Affect Responses to Acute Stress in Cannabis Users. *Psychopharmacology*. doi: 10.1007/s00213-023-06400-z; PMID: 37367968
14. *Hall, L., **Moussa-Tooks, A.**, & Sheffield, J. (*in press*) Associations Between Social Engagement, Internalizing Symptoms, and Delusional Ideation in The General Population. *Social Psychiatry and Psychiatric Epidemiology*. Preprint: <https://doi.org/10.21203/rs.3.rs-2281653/v1>
15. **Moussa-Tooks, A.**, Liu, J., Armstrong, K., Rogers, B., Woodward, N., & Heckers, S. (*in press*) Cerebellar Effects on Abnormal Psychomotor Function are Mediated by Processing Speed in Psychosis Spectrum. *Cerebellum*.
16. *Hall, L., **Moussa-Tooks, A.**, Bailey, A., & Sheffield, J. (*under review*) The Impact of Race and Socioeconomic Status on Delusional Ideation. *Schizophrenia Research*.
17. *Wolny, J., **Moussa-Tooks, A.**, Bailey, A., Mervis, J., MacDonald, A. & Hetrick, W. (*under review*) Measurement Invariance of the Revised-Green Paranoid Thought Scale Across Black and White Americans. *Schizophrenia Research*.
18. Bègue, I., Elandaloussi, Y., Delavari, F., Cao, H., **Moussa-Tooks, A.**, Roser, M., Coupe, P., Leboyer, M., Kaiser, S., Houenou, J., Brady, R., & Laidi, C. (*under review*) The cerebellum and cognitive function: anatomical evidence from a transdiagnostic sample. Preprint: <https://doi.org/10.1101/2023.02.22.23286149>
19. Feola, B., **Moussa-Tooks, A.**, Sheffield, J., Heckers, S., Woodward, N., & Blackford, J. (*under review*) Threat responses in schizophrenia through the lens of RDoC's Negative Valence Systems.
20. **Moussa-Tooks, A.**, Beermann, A., Manzanarez Felix, K., Coleman, M., Bouix, S., Holt, D., Lewandowski, K., Öngür, D., Breier, A., Shenton, M., Heckers, S., Walther, S., Brady, R., & Ward, H. (*under review*) Cerebellar-Frontal Connectivity Predicts Motor Performance. *Molecular Psychiatry*.
21. Jiang, Q., Huang, A., Rogers, B., **Moussa-Tooks, A.**, Vandekar, S., & Woodward, N. (*under review*) Thalamic Nuclei Volumes in Alcohol Use Disorder.

*Peer-Reviewed Original Articles – Special Issues (*indicated mentee)*

22. *Wolny, J., **Moussa-Tooks, A.**, Bailey, A., & Hetrick, W. (2023) Race and Self-Reported Paranoia: Increased Item Endorsement on Subscales of the SPQ. *Schizophrenia Research: Psychotic Disorders and Race*. doi:10.1016/j.schres.2021.11.034; PMID: 34895794

*Peer-Reviewed Letters to Editor, Editorials, Invited Commentaries, Etc. (*indicated mentee)*

23. **Moussa-Tooks, A.**, *Burroughs, L., Rejimon, A., Cheng, H., & Hetrick, W. (2020) Cerebellar tDCS Consistency and Metabolite Changes: A Recommendation to Decrease Barriers to Replicability. *Brain Stimulation*. doi:10.1016/j.brs.2020.08.005; PMID: 32791315
24. **Moussa-Tooks, A.**, Barch, D., & Hetrick, W. (*invited, in prep*) Three Principles for the Utility of “Simple” Tasks in Parsing Heterogeneity. *Journal of Psychopathology and Clinical Science*.

25. **Moussa-Tooks, A.** & Ward, H. (*invited, in prep*) Practical Recommendations to Improve Recruitment and Retention of Underrepresented Minorities in Science and Medicine: an Early Career Perspective. *Neuropsychopharmacology*.

*Registered Reviews (*indicated mentee)*

26. *Torregrossa, L., *Narisetti, L., Walden, R., & **Moussa-Tooks, A.** (*in prep*) Body and Movement Based Interventions in Psychotic Disorders: A Scoping Review of Treatments and Outcomes.

Peer-Reviewed Clinical Case Studies

27. **Moussa-Tooks, A.**, Sheffield, J., Freeman, D., & Brinen, A. (2023) Disentangling the Consequences of Systemic Racism and Clinical Paranoia to Promote Effectiveness of a Cognitive-Behavioral Intervention for Persecutory Delusions in Minoritized Individuals: A Case-Example. *Clinical Case Studies*. doi: 10.1177/15346501231190920
28. Patterson, E., Lim, J., Fuchs, P., Smith, J., **Moussa-Tooks, A.**, Ward, H. (*accepted*) Use of First-Generation Antipsychotics in an Adolescent Male with Catatonic Schizophrenia. *Harvard Review of Psychiatry*.

PRESENTATIONS

**indicates mentee*

Conference Individual Oral Presentations

29. **Moussa-Tooks, A.**, Kim, D., Bolbecker, A., *Bartolomeo, L., Purcell, J., Lundin, N., Newman, S., O'Donnell, B., & Hetrick, W. "Effective Connectivity Deficits in Schizophrenia during Cerebellar-Mediated Sensorimotor Synchronization." International Congress on Schizophrenia Research (ICOSR/SIRS). San Diego, CA. March 2017.
30. **Moussa-Tooks, A.**, Sheffield, J., Freeman, D., & Brinen, A. "Conceptualizing Systemic Racism in Treatment of Persecutory Delusions: A Case-Example." International Congress for CBT for Psychosis. San Francisco, CA. May 2022.
31. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Heckers, S., & Woodward, N. "Cognitive Ability and Cerebellar Volume in Psychosis." Academic Psychiatry Day, Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences. Nashville, TN. June 2022.
32. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Heckers, S., & Woodward, N. "Cerebellar Structure, Cognitive Ability, and Abnormal Psychomotor Function in Psychosis." Society for Research in Psychopathology. September 2022. Philadelphia, PA.
33. Lundin, N., **Moussa-Tooks, A.**, Kim, DJ., Brown, J., Todd, P., O'Donnell, B., & Hetrick, W. "Cerebellar Discoordination and Psychosis Phenotypes: Disruptions in Associative Learning and Semantic Organization." Society for Research in Psychopathology. September 2022. Philadelphia, PA.
34. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Liu, J., Sheffield, J., Heckers, S., & Woodward, N. "Cerebellar Structure and Cognitive Ability in Psychosis and Psychosis Phenotypes." Society of Biological Psychiatry, Rising Stars Symposia. April 2023. San Diego, CA.

35. Purcell, J., Brown, J., Tullar, R., Bloomer, B., Kim, D.J., **Moussa-Tooks, A.**, Dolan-Bennet, K., Bangert, B., Wisner, K., Lundin, N., O'Donnell, B., Hetrick, W. "Insular and striatal correlates of uncertain risky reward pursuit in schizophrenia." Schizophrenia International Research Society (SIRS). May 2023. Toronto, Canada.
36. Liu, J., Torregrossa, L., Armstrong, K., Feola, B., **Moussa-Tooks, A.**, & Heckers, S. "A Shortened Positive and Negative Symptom Scale (PANSS) Harmonizing Classical Item Response Theory with the Perspectives from Network Approach." International Meeting of the Psychometric Society. July 2023. College Park, Maryland.

Conference Poster Presentations

37. **Moussa-Tooks, A.**, Jo, M., Kim, M., Lee, R., Bryant, C., Saulsberry, A., Ahmed, Y., & McIntyre, S. "Trailing the Birds: Effects of Recreational Trails on Bird Species Diversity and Abundance." Undergraduate Biology Research Symposium at Vanderbilt University. Nashville, TN. April 2013. Poster Presentation.
38. Nackenoff, A., **Moussa-Tooks, A.**, & Blakely, R. "Acute Antidepressant Behavioral Efficacy of SSRIs Requires SERT Antagonism." Vanderbilt Kennedy Center Science Day. Nashville, TN. 2014. Poster Presentation.
39. **Moussa-Tooks, A.**, Krempely, P., *Bartolomeo, L., Bolbecker, A., O'Donnell, B., & Hetrick, W. "Predictive Power of Self-report and Cognitive Measures in Determining SCID-I and SCID-II Diagnosis." Society of Biological Psychiatry. Atlanta, GA. May 2015. Poster Presentation.
40. Purcell, J., Kim, D. J., **Moussa-Tooks, A.**, Lundin, N., Krempely, P., O'Donnell, B., Hetrick W. A graph theory investigation of neural connectivity properties in schizophrenia-spectrum disorders. Society for Research in Psychopathology. Baltimore, MD. October 2016. Poster Presentation.
41. **Moussa-Tooks, A.**, Kim, D., Bolbecker, A., Krempely, P., *Bartolomeo, L., O'Donnell, B., & Hetrick, W. "Temporal Processing in Schizophrenia: A Task-Based fMRI Study of Cerebellar-Mediated Sensorimotor Synchronization." Society for Research in Psychopathology. Baltimore, MD. October 2016. Poster Presentation.
42. **Moussa-Tooks, A.**, Kim, D., Bolbecker, A., Krempely, P., *Bartolomeo, L., O'Donnell, B., & Hetrick, W. "Temporal Processing in Schizophrenia: A Task-Based fMRI Study of Cerebellar-Mediated Sensorimotor Synchronization." IU Psychology Graduate First-Year Poster Symposium. Bloomington, IN. October 2016. Poster Presentation.
43. **Moussa-Tooks, A.**, Kim, D., Bolbecker, A., Krempely, P., Bartolomeo, L., O'Donnell, B., Newman, S., & Hetrick, W. "Temporal Processing in Schizophrenia: A Task-Based fMRI Study of Cerebellar-Mediated Sensorimotor Synchronization." Indiana Neuroimaging Symposium. Bloomington, IN. November 2016. Poster Presentation.
44. Purcell, J., Kim, D. J., **Moussa-Tooks, A.**, Lundin, N., Sporns, O., Newman, S. D., O'Donnell, B., Breier, A., & Hetrick W. P. "A Graph Theoretic Investigation of Cortical and Subcortical Network Properties in Schizophrenia-Spectrum Disorders." International Congress on Schizophrenia Research. San Diego, CA. March 2017. Poster Presentation.
45. *Rejimon, A., **Moussa-Tooks, A.**, Lundin, N., *Mitroi, J., *Burroughs, L., Saberi, S., Bolbecker, A., O'Donnell, B., Hetrick, W. "Effects of Transcranial Direct Current Stimulation on Postural Sway in

- Young Adults." National Conference of Undergraduate Researchers. Memphis, TN. April 2017. Poster Presentation.
46. *Rejimon, A., **Moussa-Tooks, A.**, Lundin, N., *Mitroi, J., *Burroughs, L., Saberi, S., Bolbecker, A., O'Donnell, B., Hetrick, W. "Effects of Transcranial Direct Current Stimulation on Postural Sway in Young Adults." IU Psychology Honors Banquet. Bloomington, IN. April 2017. Poster Presentation.
 47. *Mitroi, J., Lundin, N., Bolbecker, A., *Burroughs, L., *Bartolomeo, L., **Moussa-Tooks, A.**, *Rejimon, A., Purcell, J., O'Donnell, B., Hetrick, W. "Neurostimulation of the Human Cerebellum during Associative Learning." IU Department of Psychological and Brain Sciences Honors Thesis Poster Session. Bloomington, IN. April 2017. Poster Presentation.
 48. **Moussa-Tooks, A.**, Purcell, J., Kim, D., *Bartolomeo, L., Lundin, N., O'Donnell, B., & Hetrick, W. "Disruptions of Cerebellar Effective and Structural Connectivity Relationships in Schizophrenia." Society for Research in Psychopathology, CO. September 2017. Poster Presentation.
 49. **Moussa-Tooks, A.**, Kim, D., Krempely, P., *Bartolomeo, L., O'Donnell, B., Newman, S., & Hetrick, W. "Aberrations to Cerebellar-Cortical Effective Connectivity in Schizophrenia During Sensorimotor Synchronization." Society for Psychophysiological Research. Vienna, Austria. October 2017. Poster Presentation.
 50. *Rejimon, A., **Moussa-Tooks, A.**, *Burroughs, L., Lundin, N., *Mitroi, J., Saberi, S., Bolbecker, A., O'Donnell, B., Hetrick, W. "Effects of Transcranial Direct Current Stimulation on Postural Sway in Young Adults." Society for Psychophysiological Research. Vienna, Austria. October 2017. Poster Presentation.
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 53. **Moussa-Tooks, A.**, Green, J., Mackie, K., *Bartolomeo, L., Bradshaw, H., Leishman, E., *Gimeno, A., *Larson, E., O'Donnell, B., & Hetrick, W. "Effects of Early Life Stress on Adult Behavioral and Neural Outcomes in Rats." Indiana CTSI Annual Meeting. Indianapolis, IN. September 2018. Poster Presentation.
 54. *Chen, J., Purcell, J., Patel, S., Wade, L., **Moussa-Tooks, A.**, & Hetrick, W. (2018). Psychometric Evaluation of a Standardized Questionnaire for Measuring Perception of a Proprioceptive Illusion and its Associations with Clinical Features. Society for Research in Psychopathology. Indianapolis, IN. September 2018. Poster Presentation.
 55. *Mitroi, J., *Burroughs, L., Bolbecker, A., **Moussa-Tooks, A.**, Lundin, N., *Rejimon, A., O'Donnell, B., & Hetrick, W. "Neurostimulation of Cerebellum During Associative Learning." Society for Research in Psychopathology. Indianapolis, IN. September 2018. Poster Presentation.
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60. **Moussa-Tooks, A.**, Green, J., Mackie, K., *Bartolomeo, L., Bradshaw, H., Leishman, E., *Gimeno, A., *Larson, E., O'Donnell, B., & Hetrick, W. "Effects of Early Life Stress on Adult Behavioral and Neural Outcomes in Rats." Translational Science. Washington, D.C. March 2019. Poster Presentation.
61. **Moussa-Tooks, A.**, Green, J., Mackie, K., *Bartolomeo, L., Bradshaw, H., Leishman, E., *Gimeno, A., *Larson, E., O'Donnell, B., & Hetrick, W. "Cerebellar Endocannabinoid Down-Regulation Accompanies Early Life Stress Induced Facilitation of Eyeblink Conditioning." Society of Biological Psychiatry. Chicago, IL. May 2019. Poster Presentation.
62. **Moussa-Tooks, A.**, O'Donnell, B., & Hetrick, W. "The Value of Nuance: Aberrations to Fine Motor Control in Psychosis as Assessed via Sensorimotor Synchronization." Society for Research in Psychopathology. Buffalo, NY. September 2019. Poster Presentation.
63. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Blackford, J., Heckers, S., & Woodward, N. "A Cross-Sectional Investigation of Illness-Stage Effects on Cerebellar Grey Matter Volume in Psychosis." Society of Biological Psychiatry. Virtual. April 2021. Poster Presentation.
64. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Blackford, J., Heckers, S., & Woodward, N. "A Cross-Sectional Investigation of Illness-Stage Effects on Cerebellar Grey Matter Volume in Psychosis." Academic Psychiatry Day, Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences. Nashville, TN. June 2021. Poster Presentation.
65. Purcell, J., Brown, J., Tullar, R., Bloomer, B., Kim, DJ., Dolan-Bennett, K., Bangert, B., **Moussa-Tooks, A.**, Wisner, K., O'Donnell, B., & Hetrick, W. "Neural Correlates of Risky Decision-Making and Associations with Cognitive Functioning in Psychosis-Spectrum Disorder." Society for Research in Psychopathology. Virtual. September 2021. Poster Presentation.
66. Wolny, J., **Moussa-Tooks, A.**, Bailey, A., & Hetrick, W. "Performance of the SPQ in Black and White Americans across the Schizophrenia-Spectrum." Society for Research in Psychopathology. Virtual. September 2021. Poster Presentation.
67. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Blackford, J., Heckers, S., & Woodward, N. "Cerebellar Structure Across Early and Chronic Stages of Illness in Schizophrenia Spectrum Disorders and Psychotic Bipolar Disorder." Society for Research in Psychopathology. Virtual. September 2021. Poster Presentation.
68. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Heckers, S., & Woodward, N. "Smaller Motor and Cognitive Cerebellar Regions Prominent in Compromised Cognitive Types Across the Psychosis Spectrum." Society of Biological Psychiatry. New Orleans, LA. April 2022. Poster Presentation.

69. Purcell, J., Brown, J., Tullar, R., Bloomer, B., Kim, DJ., Dolan-Bennet, K., Bangert, B., **Moussa-Tooks, A.**, Wisner, K., Lundin, N., O'Donnell, B., & Hetrick, W. "Neural Correlates of Risky Reward Pursuit and Associations with Cognitive Functioning in Psychosis-Spectrum Disorders." Society of Biological Psychiatry. New Orleans, LA. April 2022. Poster Presentation.
70. Ered, A., **Moussa-Tooks, A.**, Huang, A., Heckers, S., & Woodward, N. "Exploring the relationship between childhood trauma exposure and neurocognitive performance in individuals with schizophrenia spectrum disorders." Academic Psychiatry Day, Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences. Nashville, TN. June 2022. Poster Presentation.
71. Gibbs, K., McHugo, M., Roeske, M., **Moussa-Tooks, A.**, Woodward, N., & Heckers, S. "Hippocampal Volume Deficits in Affective and Non-Affective Psychosis." Academic Psychiatry Day, Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences. Nashville, TN. June 2022. Poster Presentation.
72. Hall, L., **Moussa-Tooks, A.**, & Sheffield, J. "The role of social engagement in the relationship between delusional ideation and internalizing symptoms." Academic Psychiatry Day, Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences. Nashville, TN. June 2022. Poster Presentation.
73. Hall, L., **Moussa-Tooks, A.**, Bailey, A., & Sheffield, J. "The impact of race on delusional ideation in a subclinical population." Academic Psychiatry Day, Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences. Nashville, TN. June 2022. Poster Presentation.
74. Gibbs, K., McHugo, M., Roeske, M., **Moussa-Tooks, A.**, Woodward, N., & Heckers, S. "Hippocampal Volume Deficits in Affective and Non-Affective Psychosis." Society for Research in Psychopathology. Philadelphia, PA. September 2022. Poster Presentation.
75. Hall, L., **Moussa-Tooks, A.**, & Sheffield, J. "The Role of Social Engagement in the Relationship Between Delusional Ideation and Internalizing Symptoms." Society for Research in Psychopathology. Philadelphia, PA. September 2022. Poster Presentation.
76. *Larson, E., **Moussa-Tooks, A.**, Tullar, R., King, H., Bloomer, B., Bolbecker, A., O'Donnell, B., Hetrick, W., & Wisner, K. "Interactions Between Early Life Adversity and Cannabis Use on the Neuroendocrine Stress Response." Society for Research in Psychopathology. Philadelphia, PA. September 2022. Poster Presentation.
77. *Larson, E., **Moussa-Tooks, A.**, Tullar, R., Bloomer, B., King, H., Bolbecker, A., O'Donnell, B., Hetrick, W., & Wisner, K. "Interactions Between Biological Sex and Cannabis Use on Neuroendocrine and Sympathetic Stress Responses." IU Psychology Graduate First-Year Poster Symposium. Bloomington, IN. October 2022. Poster Presentation.
78. **Moussa-Tooks, A.**, Huang, A., Rogers, B., Sheffield, J., Woodward, N., & Heckers, S. "Cerebellar Effects on Abnormal Psychomotor Function Are Mediated by Processing Speed in Psychosis Spectrum." American College of Neuropsychopharmacology. Phoenix, AZ. December 2022. Poster Presentation.
79. Huang, A., Jiang, Q., Kang, K., **Moussa-Tooks, A.**, Rogers, B., Vandekar, S., & Woodward, N. "Lifespan Development of Thalamic Nuclei and Differential Sensitivity to Alcohol Use." American College of Neuropsychopharmacology. Phoenix, AZ. December 2022. Poster Presentation.
80. *Larson, E., **Moussa-Tooks, A.**, Tullar, R., Bloomer, B., King, H., Bolbecker, A., O'Donnell, B., Hetrick, W., & Wisner, K. "Interactions Between Biological Sex and Cannabis Use on Neuroendocrine and

Sympathetic Stress Responses.” Society of Biological Psychiatry. San Diego, CA. April 2023. Poster Presentation.

81. Hall, L., **Moussa-Tooks, A.**, Bailey, A., & Sheffield, J. “The Impact of Race on Delusional Ideation in a Subclinical Population.” 7th Biennial APA Division 45 Research Conference. San Diego, CA. July 2023. Poster Presentation.
82. Wolny, J., **Moussa-Tooks, A.**, Bailey, A., MacDonald III, A., Mervis, J., & Hetrick, W. “Measurement Invariance of the Revised-Green Paranoid Thought Scale Across Black and White Americans.” *Society of International Research in Schizophrenia*. Toronto, Canada. May 2023. Poster Presentation.

Science Communication/Academic Blogging

83. **Moussa-Tooks, A.** (2018, April 17). *The Art of Dissemination Part 1: Publish or Perish [Online Blog]*.
84. **Moussa-Tooks, A.** (2018, May 15). *The Art of Dissemination Part 2: Consumer Report [Online Blog]*.
85. **Moussa-Tooks, A.** (2018, August 14). *The Art of Dissemination Part 3: Care to Share? [Online Blog]*.
86. **Moussa-Tooks, A.** (2018, December 11). *An Open Letter to BRAVO TV Regarding the Misrepresentation of Schizophrenia [Online Blog]*.
87. **Moussa-Tooks, A.** (2019, January 1). *The Research Domain Criteria (RDoC) Initiative: A Brief Look [Online Blog]*.
88. **Moussa-Tooks, A.** (2019, February 26). *Science as a Bridge to Barriers in Diversity and Inclusion [Online Blog]*.
89. **Moussa-Tooks, A.** & Chen, M. (2019, June 1). *A Change of Perspective [Online Blog]*.
90. **Moussa-Tooks, A.** (2019, June 22). *Conflating Mental Illness with the Supernatural and Occult [Online Blog]*.
91. **Moussa-Tooks, A.** (2020, May 23). *4 Go-To Skills to Support Your Mental Health During COVID–19 (and Beyond) [Online Blog]*.
92. **Moussa-Tooks, A.** (2020, July 25). *A Reminder to the Community: Systemic Racism is Not Just About the Tools (But it’s a Good Start) [Online Blog]*.

Featured Press

93. “Examining the Cerebellum’s Role in Psychosis.” *Discoveries in Medicine, 2023*:
<https://discoveries.vanderbilthealth.com/2023/04/examining-the-cerebellums-role-in-psychosis/>