

Meghan Collins, M.S.

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EDUCATION

- 2017 – present **Yale University**, New Haven, CT
Ph.D. Student, Clinical Psychology
- 2011 – 2015 **Vanderbilt University**, Nashville, TN
Bachelor of Science in Cognitive Studies; Honors in Neuroscience
Neuroscience Honors Thesis: *An analysis of the relationship between stimulus distinctiveness and schizotypal personality characteristics*

HONORS & GRANTS

- 2019-2024 National Science Foundation Graduate Research Fellowship Program
- 2018 MIT Brains, Minds, Machines Summer Course (Full Scholarship)
- 2017-2018 Michal Navon Fellow (Endowed Graduate Fellowship, Yale University)
- 2011-2015 Deans List, Vanderbilt University
- 2014 First Place, Vanderbilt Undergraduate Summer Research Fair
- 2014 Vanderbilt Undergraduate Summer Research Program Grant Awardee (\$5,000)
- 2014 Student Ambassador, Vanderbilt in France
- 2013 Vanderbilt Ingram Scholarship Semi-Finalist
- 2012 Thomas Black Scholarship Award (\$1,000)
- 2011 Margaret M. Collins Trust Scholarship (\$500)

PEER-REVIEWED PUBLICATIONS

Avery, J.A., Ingeholm, J.E., Wohltjen, S., **Collins, M.A.**, Riddell, C.D., Gotts, S.J., Kenworthy, L., Wallace, G.L., Simmons, W.K., Martin, A. (2018). Neural correlates of taste reactivity in autism spectrum disorder. *Neuroimage: Clinical*, 19, 38-46.

MANUSCRIPTS UNDER REVIEW AND IN PREPARATION

Anderson, K.M., **Collins, M.A.**, Chin, R., Ge, T., Rosenberg, M.D., Holmes, A.J. Transcriptional landscape of cortical interneurons underlies in-vivo brain function and schizophrenia risk. (Under Review).

Collins, M.A., Anderson, K.M., Chin, R., Holmes, A. Community-level environmental burden tracks individual variations in brain morphology. (In Preparation).

Anderson, K.M., **Collins, M.A.**, Kong, R., Fang, K., Li, J., He, T., Chekroud, A.M., Yeo, B.T.T., Holmes, A.J. Convergent molecular, cellular, and neural signatures of major depression. (In Preparation).

POSTER AND ORAL PRESENTATIONS

Anderson, K.M., **Collins, M.A.**, Kong, R., Fang, K., Li, J., He, T., Chekroud, A.M., Yeo, B.T.T., Holmes, A.J. Converging molecular, cellular, and population imaging signatures of major depression. *Society of Biological Psychiatry*. April 2020 (abstract for oral presentation submitted).

Collins, M.A., Anderson, K.M., Holmes, A.J. Community-level resources associate with individual variability in brain anatomy. *Society for Research in Psychopathology*. September 2019.

Anderson K.M., **Collins M.A.**, Chin R., Ge T., Rosenberg M.D., Holmes A.J. The transcriptional landscape of cortical interneurons underlies in-vivo brain function and schizophrenia risk. Meeting of the Organization for Human Brain Mapping, Rome Italy. June 2019.

Collins, M.A., Anderson, K.M., Chin, R., Holmes, A.J. Neural signatures of genetic and socioeconomic risk for psychiatric illness. Society for Neuroscience Annual Meeting. November 2018.

Chin, R., Anderson, K.M., **Collins, M.A.**, Yendiki, A.J., Holmes, A.J. Metabolic cost of structural hubs in the human connectome. Society for Neuroscience Annual Meeting. November 2018.

Collins, M.A., Anderson, K.M., Chin, R., Holmes, A.J. Neural signatures of economic deprivation and genetic risk for depression. Society for Research in Psychopathology Annual Meeting. September 2018.

Crutcher, J.B., **Collins, M.A.**, Martin, A., Wallace, G.L. Dissociations in the neural substrates of language and social functioning in autism. Society for Neuroscience Annual Meeting. November 2017.

Riddell, C.D., Avery, J., Ingeholm, J.E. Wohltjen, S.E., **Collins, M.A.**, Milleville, S., Kenworthy, L., Gotts, S.J., Wallace, G.L., Simmons, W.K., Martin, A. The neural basis of abnormal taste processing in autism spectrum disorders. Society for Neuroscience Annual Meeting. November 2017.

Collins, M.A., Crutcher, J.B., Armour, A.C., Riddell, C.D., Granader, Y., Wallace, G.L., Martin, A., Kenworthy, L. Sex-differences in self-reported executive functioning problems in youth with autism spectrum disorder. International Meeting for Autism Research. May 2017.

Wallace, G.L., Crutcher, J.B., **Collins, M.A.**, Kraper, C., Kenworthy, L. Flexibility and social-communication impairments contribute to adaptive behavior difficulties in both adolescents and adults with autism spectrum disorder without intellectual disability. Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities. Panel Presentation. March 2017.

Collins, M.A., Milleville, S.C., Wohltjen, S., Ingeholm, J.E., Wallace, G.L., Simmons, W.K., Gotts, S.J., Martin, A. Food-related symptoms in autism are related to aberrant gustatory cortex intrinsic functional connectivity. Society for Neuroscience Annual Meeting. November 2016.

Collins, M.A., Milleville, S.C., Wohltjen, S., Ingeholm, J.E., Wallace, G.L., Simmons, W.K., Gotts, S.J., Martin, A. Seed regions in insula cortex associated with gustatory sensation predict atypical functional connectivity in autism. NIMH Fellows' Scientific Training Day. September 2016.

McCluey, J.D., **Collins, M.A.**, Kyle, G.M., Polyn, S.M. Increased semantic similarity reduces the forward asymmetry in free recall. Context and Episodic Memory Symposium. May 2016.

Wallace, G.L., Popal, H.S., White, E.I., **Collins, M.A.**, Simmons, W.K., Kenworthy, L., Martin, A. Cortical correlates of gustatory and olfactory avoidance in autism. NIH Postbac Poster Day. April 2016.

Collins, M.A., Polyn, S., Park, S., Ichinose, M., McCluey, J. Decoding the deficit: across-task analysis of memory impairments in schizophrenia. Vanderbilt University Research Fair. August 2014.

Ichinose, M., McCluey, J.D., **Collins, M.A.**, Polyn, S., Park, S. Long term memory deficits in schizophrenia: implications for preserved and compromised cognitive processes and prefrontal-temporal lobe circuitry differences. Vanderbilt Kennedy Center Science Day. January 2014.

RESEARCH EXPERIENCE

- 2017-present **Graduate Student**
Holmes Lab, Yale University
Advisor: Tyrone Cannon, Ph.D.
- 2015-2017 **Post-baccalaureate Intramural Research Training Award Fellow**
Laboratory of Brain and Cognition, National Institute of Mental Health
Advisor: Alex Martin, Ph.D.
- 2016-2017 **Research Assistant/Special Volunteer**
Center for Autism Spectrum Disorders, Children's National Medical Center
Advisor: Lauren Kenworthy, Ph.D.
- 2016-2017 **Research Assistant**
Vanderbilt Computational Memory Lab, Vanderbilt University
Advisor: Sean Polyn, Ph.D.

CLINICAL EXPERIENCE

- 2019-Present **Practicum Student**, Yale Child Study Center, Outpatient Psychiatric Clinic for Children
Supervisor: Lauren Fussner, Ph.D.
- Provide treatment and neuropsychological assessment for children with mood and anxiety disorders, ADHD, behavioral difficulties, and chronic medical conditions in a community clinic serving primarily Medicaid-insured populations.
 - Training includes: Parent Management Training (PMT), CBT for children, ACT for adolescents, psychological and neuropsychological assessment (e.g., WISC-V, WIAT-III, Beery VMI), integrated report writing, case management collaboration with other care providers.
- 2019- Present **Clinical Interviewer**, Yale School of Medicine Harpaz-Rotem PTSD Treatment and Research Lab
Supervisors: Ilan Harpaz-Rotem, Ph.D., Erin O'Brien, Psy.D.
- Received training and supervision administering the Structured Clinical Interview for DSM-IV (SCID-IV), Clinician-Administered PTSD Scale for DSM-5 (CAPS-5), and Columbia-Suicide Severity Rating Scale (C-SSRS)
 - Conduct weekly assessments using these clinical measures with individuals with PTSD and co-morbid diagnoses to determine eligibility for a PTSD intervention study.
- 2017-2019 **Student Clinician**, Yale Psychology Department Clinic
Supervisors: Mary O'Brien, Ph.D., Christine DeMaio, Ph.D.
- Conduct video-supervised individual therapy sessions using techniques from CBT, DBT, and ACT with adults with mood, anxiety, and related disorders
 - Conduct assessments of new clients using the SCID-5
 - Present diagnostic impression, conceptualization, and treatment recommendations at weekly group conference
 - Develop and implement curriculum for a weekly DBT skills group
- 2016-2017 **Clinical Coordinator**, Laboratory of Brain and Cognition
Supervisors: Lauren Kenworthy, Ph.D., Catherine Kraper, Ph.D.
- Trained to conduct neuropsychological testing (WASI-II), behavioral testing, and functional MRI testing

- Spent 10-15 hours per week working directly with individuals with ASD and their families.
- 2014 **Site Leader**, Health Education Outreach Project
- Led five volunteers teaching health-related lessons at a homeless shelter in Washington, D.C. once per week.
 - Collaborated with shelter leaders to create lesson materials that met the specific needs of the residents.
- 2008-2013 **Suicide Prevention Hotline Volunteer**, Samaritans of Merrimack Valley
- Completed intensive training to assess suicide risk and provide help to callers

SPECIALIZED CLINICAL TRAINING

- 2019 **Dialectical Behavior Therapy Prolonged Exposure (DBT-PE)**
Led by Emily Cooney, Ph.D. and Melanie Harned, Ph.D., ABPP
- Four-day intensive training in the dialectical behavior therapy prolonged exposure (PE) protocol for PTSD
- 2017 **Cognitive Behavioral Therapy for Depression**
Led by Steve Hollon, PhD
- One-day advanced workshop on intricacies of using CBT to treat depression
- 2016 **Neuropsychological Assessment Training**
Led by Lauren Kenworthy, Ph.D, Catherine Kraper, Ph.D.
- Training and direct supervision from experienced licensed clinical psychologists in administering the Wechsler Abbreviated Scale of Intelligence II (WASI-II)
- 2016-2017 **Schizophrenia Grand Rounds and Neuropsychological Testing**
Led by Joseph Callicott, M.D., Dwight Dickinson, Ph.D.
- Shadowed weekly schizophrenia rounds consisting of a clinical case discussion and brief clinical interview of recently admitted inpatients
 - Observed the administration of a battery of neuropsychological tests to patients with schizophrenia

TEACHING AND MENTORING EXPERIENCE

- 2018-Present **Graduate Teaching Fellow**, Yale University, New Haven, CT
PSYC 141/NSCI 141: The Criminal Mind, PSYC 180: Abnormal Psychology, PSYC 110: Introduction to Psychology
- 2017-Present **Volunteer**, Yale Girls Science Investigations
- Lead 9-11 year old girls in completing fun and informative physics experiments
- 2013-2015 **Coach**, Nashville Girls on the Run
- Coached a group of 3rd-5th grade girls in a curriculum designed to teach age-appropriate life skills while preparing for a 5k running race
- 2014 **Volunteer Teacher**, Lycéé militaire d'Aix-en-Provence
- Taught English to two classes of high school students at a French military academy
- 2011-2014 **Volunteer Tutor** , Vanderbilt Pencil Projects
- Tutored 1st- 5th grade students from low-income neighborhoods in math and reading

- 2012-2013
- **Mentor** , The Afterschool Program
 - Mentored and tutored elementary and middle school students from low-income families at a community center in Nashville

LEADERSHIP EXPERIENCE

- 2015-2016
- NIH Academy Fellows Program**, National Institutes of Health
- Designed a community outreach program to improve access to nutritious foods in the local homeless population
 - Participated in a 4 day diversity workshop and weekly roundtable discussions on topics related to health disparities
- 2013-2015
- Vice President**, Vanderbilt Girls on the Run
- Recruited volunteers and organized trainings, site placements, and fundraisers for Nashville Girls on the Run
 - Led meetings to develop strategies to be effective mentors for girls participating in the program
- 2012-2013
- Vanderbilt PREP Program**, Vanderbilt University
- Selected to complete a yearlong leadership development and service-based internship program
 - Attended weekly seminars social justice, diversity, and leadership

PROFESSIONAL DEVELOPMENT OPPORTUNITIES

- 2018
- Brains, Minds, and Machines Summer Course**
The Center for Brains, Minds, and Machines, Massachusetts Institute of Technology
- Completed an intensive three-week course that included lectures and tutorials on neuroscience, cognitive science, and computer science topics.
 - Conducted and presented an individual project utilizing machine learning methods to predict mental well-being using a broad array of demographic, genetic, and structural neuroimaging predictors.
- 2018
- Interface of Psychology, Neuroscience, and Genetics Training Program (IPNG)**
Washington University in St. Louis
- Hands-on training in integrating genomic methods into neuroimaging and psychology research.
- 2016
- Transcranial Magnetic Stimulation (TMS) Training**
Laboratory of Brain and Cognition, National Institute of Mental Health
- Completed training on TMS safety, how to use Brainsight TMS Navigation, and how to administer low-frequency repetitive TMS (rTMS)
- 2016
- AFNI Functional MRI Data Analysis Bootcamp**
National Institutes of Health
- Five-day intensive training in using AFNI for fMRI data analysis
- 2016
- Functional MRI Visiting Fellowship**
MGH/HST Athinoula A Martinos Center for Biomedical Imaging
- Five-day introduction to the fundamentals of fMRI (physics, data analysis, design)
 - Designed an fMRI experiment in a small group setting

PROFESSIONAL SERVICE AND ACTIVITIES

2019 Organized Yale Machine Learning/TensorFlow Workshop
2018-present Yale Psychology First-Year Student Mentor
2018-present Yale Psychology Clinical Current Work Speaker Series Student Committee
2018-present Yale Psychology Interview Day Committee

PROFESSIONAL MEMBERSHIPS

Society for Research in Psychopathology
Society for Neuroscience