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Education & Training

- 9/2018 – Postdoctoral Research Fellowship, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine
- 6/2015 - 10/2019 Stanford Adult Psychiatry Residency Program, Research Track, Stanford University School of Medicine
- 8/2008 – 6/2010; 7/2013 – 6/2015 M.D. Dartmouth Medical School
- 7/2008 – 6/2013 Ph.D. in Experimental and Molecular Medicine, Neuroscience, Dartmouth College
- 8/2003 – 6/2008 B.Sc. in Brain and Cognitive Sciences, Massachusetts Institute of Technology

Employment

- 11/2019 – Clinical Scholar, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine

Honors & Awards

- 2021 American Academy of Child and Adolescent Psychiatry Research Colloquium
- 2020 Society of Biological Psychiatry Travel Award Fellowship
- 2020-2023 Klingenstein Fellowship Award in Child and Adolescent Depression
- 2020-2021 Taube Endowed Youth Addiction Initiative Fellowship
- 2019-2021 Career Development Institute for Psychiatry (CDI)
- 2019-2020 American Psychiatric Association Research Colloquium
- 2018-2021 NIMH T32 National Research Postdoctoral Fellowship
- 2015- Stanford Society of Physician Scholars
- 2015 American College of Neuropsychopharmacology Travel Award
- 2015 Society of Biological Psychiatry Medical Student Scholars Award
- 2015 Dartmouth Medical School Award for Excellence in Clinical Psychiatry
- 2014 C. Everett Koop Scholar in Addiction Studies
- 2013 C. Everett Koop Community Advocacy in Mental Health Award
- 2008 MIT Award for Outstanding Research in Brain & Cognitive Sciences
- 2008 MIT Han-Lukas Teuber Award for Outstanding Academic Achievement
- 2008 MIT Certificate of Distinction in Teaching
- 2008 Phi Beta Kappa Honor Society, MIT Chapter
- 2008 Society of Sigma Xi (Scientific Research Honor Society)
- 2007 MIT Tau Beta Pi Honor Society, Mass Beta Chapter
- 2007 National Society of Collegiate Scholars

Research Experience

- 9/2016 – *Functional Neuroimaging Biomarkers of Resilience and Treatment Response in Depression*
Stanford University
Research Mentors: Professors Ian Gotlib, Leanne Williams & Alan Schatzberg
My post-graduate research has focused on characterizing differential functional connectivity and activation profiles within brain networks that distinguish resilience from risk and conversion to major depressive disorder. Specifically, I characterized functional neuroimaging (fMRI) biomarkers of resilience to adolescent-onset depression, and the influence of stressful life events. I also identified differential reward processing that may help predict resilience versus conversion to depression in high-risk youth. Additionally, I have characterized patterns of neural activation and functional connectivity in the implicit processing of facial expressions that distinguish healthy youth at familial risk for bipolar disorder versus youth at familial risk for major depressive disorder and low risk healthy controls. I have also characterized biomarkers of antidepressant treatment response with respect to improvement in clinical symptoms and quality of life. Most recently, I have been awarded independent funding to investigate the effects of cannabis exposure on depressive symptoms and neurobiological function in youth. This research incorporates functional neuroimaging, measures of stress function, and cannabinoid bioassays to improve our understanding of the neurobiological impact of cannabis exposure and stressful life events that may mechanistically contribute to depression during adolescence and the transition to adulthood -- an understudied period of ongoing brain maturation.
- 9/2010-6/2015 *Effects of Cannabis in Patients with Schizophrenia and Cannabis Use Disorder*
Dartmouth College
Research Mentors: Professors Alan Green, Robert Roth, and Susan Whitfield-Gabrieli
My dissertation research examined changes in clinical, cognitive, and brain circuit functioning following the administration of cannabis and delta-9-tetrahydrocannabinol (THC) in patients with schizophrenia and co-occurring cannabis use disorder relative to healthy controls. I characterized changes in resting-state functional connectivity of reward, cognitive control, and default mode networks (assessed via fMRI) following the acute inhalation of a 3.6% THC cannabis joint, oral 10 mg THC, or placebo in relation to change in psychiatric symptoms, cognitive function, and serum THC levels. During my graduate studies, I also collaborated on research to examine executive functioning in young adults, and to identify neurosurgical patients at elevated risk of mortality following cerebral aneurysm surgery.
- 9/2005-6/2008 *Early Childhood Causal Learning*
Massachusetts Institute of Technology
Research Mentor: Professor Laura Schulz
My undergraduate research in the Early Childhood Cognition Laboratory at MIT (PI: Laura Schultz) examined developmental changes in the cognitive structure of children's early beliefs and longitudinal changes in associative learning and theory of mind. Specifically, I examined the role of statistical inference and prior beliefs on children's reasoning about theory-violating evidence. Preschool aged children who failed to endorse a statistically more probable (but a priori unlikely) cause after they were presented with ambiguous evidence were assigned to a statistical reasoning training or a control condition. Relative to the control subjects, children in the

training condition were more likely to endorse the a priori unlikely variable on a free-explanation task. Findings from this work demonstrated that statistical reasoning training improves preschoolers' ability to learn from data that was inconsistent with their prior beliefs. By delineating developmental differences in children's cognitive framework when learning cause and effect relationships, this research informed the development of improved screening tools for earlier diagnosis of neurodevelopmental disorders.

Original Peer-Reviewed Research

1. **Fischer AS**, Holt-Gosselin B, Fleming SL, Hagan KE, Nimarko AF, Gotlib IH, Singh MK. Intrinsic Connectivity and Family Dynamics: Striatolimbic Markers of Risk and Resilience in Youth at Familial Risk for Mood Disorders. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (2022): In Press.
2. **Fischer AS**, Holt-Gosselin B, Fleming SL, Hack, LM, Ball TM, Schatzberg AS, Williams LM. Intrinsic reward circuit connectivity profiles underlying symptom and quality of life outcomes following antidepressant medication: A report from the iSPOT-D trial. *Neuropsychopharmacology* 4 (2021): 801-819.
3. **Fischer AS**, Hagan KE, Gotlib IH. Functional neuroimaging biomarkers of resilience in depression. *Current Opinion in Psychiatry*. 33 (2021): 22-28.
4. Nimarko AF, **Fischer AS**, Hagan KE, Gorelik AJ, Lu Y, Young CJ, Singh MK. Neural correlates of positive emotion processing that distinguish healthy youth at familial risk for bipolar versus major depressive disorder. *Journal of the American Academy of Child and Adolescent Psychiatry* (2021): 887-901.
5. **Fischer AS**, Tapert S, Louie D, Singh MK. Cannabis and the developing adolescent brain. *Current Treatment Options in Psychiatry*. 7 (2020): 144-161.
6. **Fischer AS**, Elwood-Lowe M, Colich N, Cichoki A, Ho T, Gotlib I. Reward circuit biomarkers of risk and resilience in adolescent depression. *Journal of Affective Disorders*. 246 (2019): 902-909.
7. **Fischer AS**, Camacho MC, Ho T, Whitfield-Gabrieli S, Gotlib I. Neural markers of resilience in adolescents at familial risk for major depressive disorder. *JAMA Psychiatry*. 75 (2018): 493-502.
8. Whitfield-Gabrieli S*, **Fischer AS***, Henricks AM, Khokhar JY, Roth RM, Green, AI. Understanding marijuana's effects on functional connectivity of the default mode network in patients with schizophrenia and co-occurring cannabis use disorder. *Schizophrenia Research*. 194 (2018): 70-77.
*Authors contributed equally.
9. **Fischer AS**, Keller CJ, Etkin A. The clinical applicability of functional connectivity in depression: Pathways toward more targeted intervention. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. 1 (2016): 262-270.
10. **Fischer AS**, Whitfield-Gabrieli S, Roth RM, Brunette MF, Green AI. Response to cortico-accumbens circuitry in schizophrenia merely a reward system? *Schizophrenia Research*. 161 (2014): 519-520.
11. **Fischer AS**, Whitfield-Gabrieli S, Roth RM, Brunette MF, Green AI. Impaired functional connectivity of brain reward circuitry in patients with schizophrenia and cannabis use disorder: Effects of cannabis and THC. *Schizophrenia Research*. 158 (2014): 176-182.
12. Bekelis K, Missios S, **Fischer AS**, Desai A, MacKenzey T, Labropoulos N, Eskey, C. A predictive model of outcomes during cerebral aneurysm coiling. *Journal of Neurointerventional Surgery*. 6 (2014): 342-348.

13. Bekelis K, Missios S, Desai A, MacKenzey T, Labropoulos P, **Fischer AS**, Roberts, D. Predicting inpatient complications from cerebral aneurysm clipping: The Nationwide Inpatient Sample 2005-2009. *Journal of Neurosurgery*. 120 (2014): 591-598.
14. Roth RM, Lance C, **Fischer AS**, Isquith P, Giancola P. Confirmatory factor analysis of the BRIEF-A in young adults and its application to ADHD. *Archives of Clinical Neuropsychology*. 28 (2013): 425-434.
15. Bonawitz E, **Fischer AS**, Schulz L. Teaching 3.5-year-olds to revise their beliefs given ambiguous evidence. *Journal of Cognition and Development* 13.2 (2012): 266-280.
16. **Fischer AS**, Bonawitz E, Schulz L. Teaching preschoolers to reason about ambiguous evidence. *MIT Psychology Press* (2011): 255-261.

Under Review

Fischer AS*, Fleming SL*, Hagan KE, Holt-Gosselin B, Schatzberg AS, Williams LM. Patient-level Machine Learning Models for Predicting Clinical and Quality of Life Outcomes with Antidepressant Medication in Depression. *Authors contributed equally.

Hagan KE, **Fischer AS**, Korb M, Onopa A, Phillips O, Hallmayer J, Taylor J, Gotlib IH, Mackey L, Singh MK. Cognitive Domains Associated with Sex Differences and Similarities in Psychopathology-Related Functional Impairment in Youth.

Nimarko AF*, **Fischer AS***, Hagan KE, Singh MK. Differential reward processing distinguishes bipolar disorder from major depressive disorder risk in asymptomatic high-risk youth. *Authors contributed equally.

Hagan KE, **Fischer AS**, Angal S, Nimarko AF, Bohan CM, Rasgon NL, Singh MK. Neural incentive processing of monetary reward that distinguish youth with depression and obesity.

Selected Presentations

Fischer AS, Holt-Gosselin B, Fleming SL, Hack LM, Ball TM, Schatzberg AS, Williams LM. Symptoms and quality of life in depression: Characterizing differential profiles of intrinsic reward circuit connectivity underlying antidepressant treatment response. American College of Neuropsychopharmacology 58th Annual Meeting (2020); virtual meeting.

Fischer AS, Holt-Gosselin B, Fleming, SL, Nimarko AF, Hagan KE, Gotlib IH, Singh MK. Family dynamics and emotion processing: Functional connectivity biomarkers of risk and resilience in youth at familial risk for mood disorders. Society of Biological Psychiatry 75th Annual Meeting (2020).

Singh MK, Nimarko AF, Hagan KE, **Fischer AS**. Variable neurobehavioral outcomes in youth at familial risk for mood disorders. Society of Biological Psychiatry 75th Annual Meeting (2020).

Holt-Gosselin B*, **Fischer AS***, Fleming SL, Hack LM, Ball TM, Schatzberg AS, Williams LM. Functional connectivity of reward circuitry is a core mechanistic biomarker of treatment response and quality of life in depression. Society of Biological Psychiatry 75th Annual Meeting (2020). *Authors contributed equally.

Hagan KE, Bohon C, **Fischer AS**, Nimarko AF, Angal S, Rodriguez N, Singh MK. Neural processing of monetary reward in youth with depression and overweight/obesity, with and without loss of control eating. Organization of Human Brain Mapping Annual Meeting (2020).

Singh MK, Nimarko AF, Nrusimha A, Gorelik AJ, Rodriguez NS, Carta KE, Lu Y, Kaur J, Hagan KE, **Fischer AS**. Aberrant reward function and structure is associated with suicidal ideation and behavior

in youth with depression and obesity. 67th Annual Meeting of the American Academy of Child and Adolescent Psychiatry (2020); virtual meeting.

Fischer AS, Nimarko AF, Hagan KE, Gotlib IH, Singh MK. Functional connectivity biomarkers of emotion regulation that distinguish risk for bipolar versus unipolar depression in clinically asymptomatic high-risk youth. American College of Neuropsychopharmacology 58th Annual Meeting (2019); Orlando, FL.

Hagan KE, **Fischer AS**, Nrusimha A, Nimarko AF, Gorelik A, Bohon CM, Rasgon N, Singh MK. Insulin resistance and structural change in the anterior cingulate cortex in youth with depression and obesity. American College of Neuropsychopharmacology 58th Annual Meeting (2019); Orlando, FL.

Angal S, **Fischer AS**, Nimarko AF, Pan T, Bohon CM, Rasgon NL, Singh MD. Neural responses to monetary reward in youth with depression and obesity. 66th Annual Meeting of the American Academy of Child and Adolescent Psychiatry (2019); Chicago, IL.

Fischer AS, Nimarko AF, Leslie SM, Singh MK. Emotion network predictors of clinical outcome in youth at high risk for bipolar disorder. Society of Biological Psychiatry 74th Annual Meeting (2019); Chicago, IL.

Fischer AS, Ellwood-Lowe M, Colich NL, Ho T, Gotlib I, Singh MK. Reward processing predictors of resilience to adolescent-onset depression. American College of Neuropsychopharmacology 57th Annual Meeting (2018); Hollywood, FL.

Fischer AS, Ellwood-Lowe M, Colich NL, Ho T, Singh MK, Gotlib I. Neural processing of reward and loss: Identifying biomarkers of resilience to adolescent depression in high risk youth. Society of Biological Psychiatry 73rd Annual Meeting (2018); New York, NY.

Fischer AS, Camacho MC, Ho T, Whitfield-Gabrieli S, Gotlib I. Looking at the brighter side: Functional connectivity biomarkers of resilience to adolescent depression in emotion regulation networks. American College of Neuropsychopharmacology 56th Annual Meeting (2017); Palm Springs, CA.

Camacho MC, **Fischer AS**, Ho T, Bansal H, Gotlib I. Regional cerebral blood flow patterns underlying susceptibility and resilience to depression in adolescent females. Society of Biological Psychiatry 72nd Annual Meeting (2017); San Diego, CA.

Fischer AS, Camacho MC, Ho T, Whitfield-Gabrieli S, Gotlib I. Functional connectivity markers of resilience in adolescents at risk for depression. American College of Neuropsychopharmacology 55th Annual Meeting (2016); Hollywood, FL.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Green AI. Improvement in anti-correlation between the task positive and default mode networks induced by cannabis in schizophrenia: Implications for working memory? 15th International Congress of Schizophrenia Research (2016); Colorado Springs, CO.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Green AI. Cannabinoid agonists, functional connectivity of the default mode network, and working memory performance in patients with schizophrenia and cannabis use disorder. American College of Neuropsychopharmacology 53rd Annual Meeting (2014); Phoenix, AZ.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Green AI. Cannabis: Effects on intrinsic functional brain organization of the default mode network in patients with schizophrenia. Society of Biological Psychiatry 69th Annual Scientific Meeting (2014); New York, NY.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Brunette MF, Green AI. Resting state functional connectivity of the medial prefrontal cortex: Understanding the effects of cannabis use on cognition in patients with schizophrenia. Resting State Brain Connectivity Conference (2014); Boston, MA.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Brunette MF, Green AI. Effects of smoked cannabis and oral delta-9-tetrahydrocannabinol (THC) on functional connectivity of the brain reward circuit in patients with schizophrenia and co-occurring cannabis use disorder. American Neuropsychiatric Association Annual Meeting (2013); Boston, MA.

Roth RM, **Fischer AS**, Holcomb M, Kenealy L, Isquith P. Two vs. three factor model scores on the BRIEF in children and adults with ADHD. International Neuropsychological Society Annual Meeting (2013); Amsterdam, Netherlands.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Brunette MF, Green AI. Resting state functional connectivity of brain reward circuitry in patients with schizophrenia and cannabis use disorder. 13th International Congress on Schizophrenia Research (2013); Orlando, FL.

Green AI, **Fischer AS**, Roth RM, Whitfield-Gabrieli S, Gulick D, Brunette, M. Developing treatments for schizophrenia and co-occurring substance use disorder: Targeting brain reward circuitry. National Institute of Mental Health (2013); Bethesda, MD.

Fischer AS, Onakomaiya MM, Savage S. Moving forward from disaster through Skills for Psychological Recovery (SPR). New Hampshire Medical Society Annual Meeting (2013); Whitefield, NH.

Fischer AS, Whitfield-Gabrieli S, Roth RM, Brunette MF, Green AI. Delineating reward circuit abnormalities in schizophrenia – a resting state functional connectivity (rs-fcMRI) approach. Society for Neuroscience (2012); New Orleans, LA.

Bonawitz E, **Fischer AS**, Schulz L. Training a Bayesian: Three-and-a-half-year-olds' reasoning about Ambiguous Evidence. Proceedings of the 13th Annual Conference of the Cognitive Science Society (2008); Washington, D.C.

Invited Talks

Neural markers of resilience in youth at familial risk for major depressive disorder. Stanford University, Department of Psychiatry and Behavioral Sciences (2021); Stanford, CA.

Depression onset during the transition from adolescence to adulthood: Advancing our understanding of trajectories of resilience and risk among at-risk adolescents and college-age youth. Stanford University, Department of Psychiatry and Behavioral Sciences (2020); Stanford, CA.

Examining trajectories of risk and resilience to depression and the psychiatric implications of cannabis use among transition age youth. University of California, Irvine. (2020); Irvine, CA.

Cannabis and depression among college-age youth: Neurobiological sequelae and future research. University of Southern California (2020); Los Angeles, CA.

Dissociable neural network markers of risk and resilience in pediatric bipolar disorder. 66th Annual Meeting of the American Academy of Child and Adolescent Psychiatry (2019); Chicago, IL.

Effects of marijuana use on brain circuitry and depressive symptoms in youth with bipolar disorder. American Academy of Child and Adolescent Psychiatry 66th Annual Meeting (2019); Chicago, IL.

Potency matters: Psychiatric effects of cannabis on the developing brain. 15th Annual Stanford Mood Disorders Education Day (2019); Stanford, CA.

The link between adolescent cannabis use and depression? Investigating the effects of cannabis on reward and stress circuitry. American Psychiatric Association Annual Meeting, Psychiatry Research Colloquium (2019); San Francisco, CA.

Toward understanding the role of adolescent cannabis use and the development of co-occurring mood and substance use disorders. University of Colorado School of Medicine, Department of Psychiatry (2019); Anschutz, CO.

Understanding the effects of cannabis use on psychiatric symptoms in youth. Stanford Counseling and Psychological Services (CAPS), Stanford University, Department of Psychiatry and Behavioral Sciences (2019); Stanford, CA.

Neurobiological, clinical and cognitive effects of marijuana in adolescence. Caminar 4th Annual Behavioral Health Symposium (2018); Woodside, CA.

Delivering compassionate health care: Understanding youth who struggle with mental illness and substance misuse. Stanford Premedical Association 2nd Annual Conference (2018); Stanford, CA.

Impaired connectivity of brain reward circuitry underlying cannabis use in schizophrenia and the effects of cannabis and purified delta-9-tetrahydrocannabinol. American Neuropsychiatric Association Annual Meeting (2017); Boston, MA.

Moving forward from disaster: Skills for psychological recovery. 2014. University Seminar, Dartmouth Center for Addiction Recovery, and Education (DCARES) and at the New Hampshire Medical Society Annual Meeting (2015); Whitfield, NH.

Functional connectivity of neural circuitry in schizophrenia: Effects of cannabis and THC. 27th Annual Neuroscience Day at Dartmouth (2013); Hanover, NH.

The clinical impact of cannabis and other substance abuse on schizophrenia: The process toward developing more effective treatments. A series of lectures presented to clinicians at local community clinics in New Hampshire and Vermont (2013-2014).

Research Support

Current

7/2021-Ongoing Stanford Wu Tsai Neuroscience Institute Neurochoice Initiative Seed Grant
Title: Examining the effects of regular cannabis use on neural responses to reward among transition-age youth

PI: Fischer

2/2020-Ongoing Klingenstein Third Generation Foundation Fellowship in Child and Adolescent Depression
Title: Investigating the effects of cannabis in adolescent depression

PI: Fischer

9/2020-Ongoing Taube Endowed Youth Addiction Initiative at Stanford
PI: Fischer

9/2018–7/2021 T32-MH019938 National Institute of Mental Health
Postdoctoral Research Training Fellowship in Clinical Psychiatry
PI: Schatzberg

Prior

1/2018-1/2019 Stanford Research Innovation Seed Grant
Center for Neurobiological Imaging, Stanford University
Title: Intrinsic connectivity correlates of antidepressant treatment response
PI: Fischer

Pending

7/2022-6/2027 K23 Mentored Patient-Oriented Career Development Award
National Institute of Drug Abuse (NIDA)
Title: Cannabis, depression and neurobiological function in transition-age youth
PI: Fischer

Teaching

9/2019-Ongoing Resident and Medical Student Supervision, Department of Psychiatry and Behavioral Sciences, Stanford University

9/2013 Graduate Teaching Assistant, Program in Experimental and Molecular Medicine, Introduction to fMRI Research Methods, Dartmouth Medical School

2/2008 Introduction to Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology

2/2007 Undergraduate Teaching Assistant, Infant and Early Childhood Cognition, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology

Leadership

9/2016-9/2019 Stanford Women in Science and Engineering (WISE) Program
- Led support groups for graduate students and post-doctoral fellows at Stanford University; served as group facilitator for weekly WISE group meetings addressing a variety of topics including balancing work and adversities faced by women in science, career choices and navigating academia

9/2016-8/2018 American Association of Medical Colleges (AAMC)
- Served on the AAMC Organization of Resident Representatives to help improve physician wellness and training initiatives; led a focus group on gender disparity in medicine (e.g., in leadership, salary, and promotion)

9/2016-6/2019 Stanford Psychiatry Residency Admissions Committee

9/2015-9/2019 Stanford Graduate Medical Education Diversity Committee Member

9/2013-8/2015 C. Everett Koop Scholar in Addiction
- Conducted campus-wide lectures to discuss research, clinical advances and public policy involving substance use, addiction, and psychiatry

10/2012-6/2015 Geisel Disaster Relief Program
- Founding Member; Set up a collaboration between Dartmouth College and the National Center for PTSD and led service trips to New York to teach Skills for

Psychological Recovery to victims of Hurricane Sandy in areas of New York City that were most severely affected

- 9/2011-6/2014 Dartmouth M.D.-Ph.D. Admissions Committee
- 9/2010-6/2015 Dartmouth Graduate Relief Team
- Organized community outreach opportunities for Dartmouth graduate and medical school students
- 9/2008-8/2010 Dartmouth Student Government
- M.D.-Ph.D. student representative; attended meetings with medical students, faculty and staff to organize social, research, and volunteer events; also served as liaison to medical school administration on student advocacy issues
- 8/2006-7/2008 Drug and Alcohol Peer Advisor, Massachusetts Institute of Technology
- Worked with undergraduate students at MIT to promote awareness about drug and alcohol use, including strategies to help students recognize and seek help for alcohol-related issues

Professional Affiliations

American Association of Medical Colleges
American Academy of Child and Adolescent Psychiatry
American Medical Association
American Psychiatric Association
American Physician Scientist Association
California Psychiatric Association

Research Mentorship

Akua Fasua Nimarko: PhD candidate in neuroscience, Stanford University

- Investigating differences in reward and emotion processing in healthy youth at-risk for bipolar disorder relative to youth at risk for major depressive disorder and low risk healthy controls

Bailey Holt-Gosselin: PhD candidate in neuroscience, Yale University (former clinical research coordinator in Dr. Williams PanLab)

- Learning and applying statistical approaches for analyzing longitudinal data-sets and functional neuroimaging analysis; mentorship on graduate school and fellowship applications

Kelsey E. Hagan, PhD: Postdoctoral scholar, Columbia University (former postdoctoral scholar at Stanford)

- Learning and applying functional neuroimaging methodologies (resting-state functional connectivity) to examine brain circuitry in youth with depression and obesity

Scott L. Fleming: PhD candidate in biostatistics, Stanford University

- The clinical translational application of predictive modeling to distinguish clinical and functional antidepressant treatment response from non-response in patients with major depressive disorder

M. Catalina Camacho: PhD candidate in neuroscience, University of Pittsburgh (former research assistant in Dr. Gotlib SNAP Lab)

- The application of resting state functional connectivity to examine brain network differences that distinguish conversion from resilience in adolescent-onset depression

Monica Elwood-Lowe: PhD candidate in psychology, UC Berkeley (former research assistant in Dr. Gotlib SNAP Lab)

- fMRI analysis of anticipation and outcome of monetary reward in adolescents at high versus low familial risk for depression

Sarthak Angal: MD candidate, Stanford University

-Analysis of functional neuroimaging data

Aaron Gorelik: Undergraduate, UC Davis

-Manuscript writing and mentorship on graduate school applications

Journal Review

Biological Psychiatry

JAMA Psychiatry

Journal of Affective Disorders

Journal of the American Academy of Child and Adolescent Psychiatry

Journal of Dual Diagnosis

Journal of Psychiatric Research

Molecular Psychiatry

PLoS One

Schizophrenia Bulletin

Scientific Reports

Translational Psychiatry

Scholastic Performance

MIT Undergraduate GPA: 4.8/5.0

United States Medical Licensing Examinations:

Step 1: 254

Step 2 CK: 261

Step 2 CS: Pass (Pass/Fail)

Step 3: 260