

CURRICULUM VITAE
Avram Jonathan Holmes

Office: Center for Advanced Human Brain Imaging Research
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EMPLOYMENT:

2023- Associate Professor
Department of Psychiatry
Brain Health Institute
Center for Advanced Human Brain Imaging Research
Rutgers University

2020-2023 Associate Professor on Term
Department of Psychology
Department of Psychiatry
Interdepartmental Neuroscience Program
Wu Tsai Institute
Yale University

2014-2020 Assistant Professor
Department of Psychology
Yale University

2012-2020 Assistant in Research
Department of Psychiatry
Massachusetts General Hospital

2012-2014 Instructor in Psychiatry
Harvard Medical School

EDUCATION and TRAINING:

2009-2012 Post-doctoral fellow
Center for Brain Science
Harvard University

2008-2009 Clinical Psychology Internship
Warren Alpert Medical School
Brown University

2003-2009 Ph.D. (Clinical Psychology)
Harvard University

Dissertation: Action monitoring in depression: ERP and fMRI correlates

1994-1998 B.S. (Psychology)
Pennsylvania State University

GRANTS:

- 2024-2029 P50MH136296, Silvio O. Conte Centers for Basic Neuroscience or Translational Mental Health Research (P50 Clinical Trial Optional)
Title: Understanding Latent Cause Inference in Health and Illness
Role: Co-Investigator and Co-Core/Co-Project Lead (PI: Yael Niv)
Amount Awarded: Pending
- 2023-2024 Rutgers University Office for the Vice Provost for ML/AI Pilot Seed Grant
Title: Enabling Precision Medicine in Psychiatry Through Advances in Machine Learning for Multimodal Neuroimaging Data
Role: MPI (PIs: David Zald/Linden Parkes/Waheed Bajwa)
Amount Awarded: \$50,000
- 2022-2027 Canadian Institutes of Health Research (cIHR; Project Grant: 470425)
Title: Brain structural predictors of substance use risk and COVID-19 effects in youth
Role: Co-Investigator (PIs: Danilo Bzdok/Sarah Yip)
Amount Awarded: \$920,000
- 2022-2027 R01DA053301, Accelerating the Pace of Child Health Research Using Existing Data from the Adolescent Brain Cognitive Development (ABCD) Study (R01-Clinical Trial Not Allowed)
Title: Application of a Bayesian strategy to ABCD: Identification of substance-use risk and COVID-19 effects on neurodevelopment
Role: Co-Investigator (PIs: Danilo Bzdok/Sarah Yip)
Amount Awarded: \$1,605,038
- 2021-2024 R01MH123245, BRAIN Initiative: Secondary Analysis and Archiving of BRAIN Initiative Data (R01 Clinical Trial Not Allowed)
Title: Integrative analysis of genomics and imaging data from the BRAIN Initiative and other public data sources
Role: MPI (PI: Mark Gerstein)
Amount Awarded: \$1,309,909 (Yale Allocation: \$1,309,909; Indirect costs: \$520,620)
- 2020-2025 R01MH124110, NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)
Title: Remote computational phenotyping of behavioral and affective dynamics in major depression
Role: Co-Investigator (PI: Robb Rutledge)
Amount Awarded: \$3,987,255 (Yale Allocation: \$3,775,246; Indirect costs: \$1,531,443)
- 2019-2024 R01MH120080, NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)
National Institute of Mental Health/NIH
Title: Functional genomics of the human connectome in psychiatric illness
Role: PI
Amount Awarded: \$3,263,502 (Yale Allocation: \$2,211,554; Indirect costs: \$1,051,948)

- 2014-2016 NARSAD Young Investigator Grant, Brain & Behavior Research Foundation
 Title: Identifying network-level fingerprints of affective illness and associated polygenic vulnerability in the general population
 Role: PI
 Amount Awarded: \$60,000
- 2013-2018 K01MH099232, Mentored Research Scientist Development Award
 National Institute of Mental Health/NIH
 Title: Dimensional neurogenetic markers of limbic system integrity & psychiatric illness
 Role: PI
 Amount Awarded: \$733,735 (Yale Allocation: \$679,384; Indirect costs: \$54,350)
- 2013-2017 R01MH101486, Dimensional Approaches to Research Classification in Psychiatric Disorders
 National Institute of Mental Health/NIH
 Title: Neural and genetic basis of negative valence traits
 Role: Co-Investigator (PI: Jordan Smoller)
 Amount Awarded: \$2,611,890
- 2012-2013 Robert Wood Johnson Health and Society Scholars Grant
 Title: Anxiety, low mood, and individual variation in brain structure in young adults
 Role: PI
 Amount Awarded: \$9,659
- 2007-2008 F31MH078346, Ruth L. Kirschstein NRSA, Predoctoral Fellowship
 National Institute of Mental Health/NIH
 Title: Action monitoring in depression: ERP and fMRI correlates
 Role: PI
 Amount Awarded: \$54,222
- 2006-2007 Sackler Scholar in Psychobiology: Distinction for Interdisciplinary Research
 Title: The effects of task-relevant feedback on task performance in major depressive disorder
 Role: PI
 Amount Awarded: \$12,480
- 2005-2006 Sackler Scholar in Psychobiology: Distinction for Interdisciplinary Research
 Title: The electrophysiological correlates of action monitoring in major depressive disorder
 Role: PI
 Amount Awarded: \$24,960

HONORS AND AWARDS:

- 2021 Wu Tsai Postdoctoral Fellowship Program Award, Yale University
 2020 Associate Professor Leave, Yale University
 2020 Fellow of the Association for Psychological Science
 2019 Arthur Greer Memorial Prize for Outstanding Research, Yale University
 2019 A.E. Bennett Research Award, Society for Biological Psychiatry
 2018 Team Science Research Award, Massachusetts General Hospital

2016	Gerald R. Klerman Award, Brain & Behavior Research Foundation Honorable Mention
2014	Junior Faculty Fellowship, Yale University
2011	Department of Psychiatry Clinical Research Award, Massachusetts General Hospital
2007	Society for Psychophysiological Research Student Travel Award
2006, 2007	Biddle Restricted Fund Research Grant, Harvard University
2005-2007	HealthEmotions Research Institute Fellow, University of Wisconsin-Madison
2006	Sigma Xi Grants-in-Aid of Research Recipient
2005	Summer Institute: Biology of Developmental Disabilities Merck Fund Travel Award
2004-2006	Harvard University Graduate Student Fellowship
2004, 2005	Ditmars Restricted Fund Research Grant, Harvard University
2004, 2005	McMasters Fund Research Grant, Harvard University
2004	Allport Fund Research Grant, Harvard University
2004	Stimson Fund Research Grant, Harvard University

HONORS AND AWARDS TO MENTEES

2023	The Neuro - Irv and Helga Cooper Foundation Open Science Prize Runner Up, Tanenbaum Open Science Institute (Sidhant Chopra)
2023	AAUW International Fellowship (Edwina Orchard)
2023	American Australian Association Scholarship (Sidhant Chopra)
2023	OHBM Merit Travel Award (Xihan Zhang)
2023	OHBM Merit Travel Award (Sidhant Chopra)
2023	OHBM Merit Travel Award (Elvisha Dhamala)
2023	Stanford University Knight-Hennessy Scholars award (Jocelyn Ricard)
2023	Yale Kavli Postdoctoral Fellowship (Edwina Orchard)
2022	Yale SCORE Career Enhancement program award (Elvisha Dhamala)
2022	American Australian Association Scholarship (Edwina Orchard)
2022	OHBM Merit Travel Award (Loïc Labache)
2022	Yale Kavli Institute for Neuroscience Summer Undergraduate Research Fellowship (SURF; Emily Berkeley)
2021	Yale UCL Collaborative Student Exchange Programme (Peter Kirk)
2021	National Science Foundation Graduate Research Fellowship (Lia Chen)
2021	Inaugural Kavli Institute for Neuroscience (KIN) Postdoc Fellowship for Academic Diversity (Elvisha Dhamala)
2020	Tan Kah Kee Postgraduate Scholarship (Rowena Chin)
2020	Yale University Grossman Dissertation Prize (Kevin Anderson)
2019	National Science Foundation Graduate Research Fellowship (Meghan Collins)
2019	Duke Summer School in Social Neuroscience and Neuroeconomics (Lauren Patrick)
2018	Center for Brains, Minds, and Machines Summer Course (Meghan Collins)
2018	OHBM Merit Travel Award (Rowena Chin)
2017	Theresa Seessel Postdoctoral Fellowship (Monica Rosenberg)
2016	Yale University STARS Summer Research Program (Raul Monraz)
2015	National Science Foundation Graduate Research Fellowship (Kevin Anderson)

PUBLICATIONS (PEER REVIEWED):

**Lab graduate student/undergraduate/post-bacc trainee or *post-doctoral author; +co-senior author

1. Ibrahim K, Iturmendi-Sabater I, Vasishth M, Barron DS, Guardavaccaro M-R, Funaro MC, Holmes A, McCarthy G, Eickhoff SB, Sukhodolsky DG. (In Press). Neural circuit disruptions of eye gaze processing in autism spectrum disorder and schizophrenia: an activation likelihood estimation meta-analysis. *Schizophrenia Research*.

2. Kohler R, Lichenstein SD, Cheng A, Holmes A, Bzdok D, Pearlson G, Yip S. (In Press). Identification of a composite latent dimension of reward and impulsivity across clinical, behavioral and neurobiological domains among youth. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
3. Boen R, Kaufmann T, van der Meer D, Frei O, Agartz I, Ames D, Andersson M, et al. (2023). Beyond the global brain differences: intra-individual variability differences in 1q21.1 distal and 15q11.2 BP1-BP2 deletion carriers. *Biological Psychiatry*, 95(2), 147-160.
4. Chopra S*, Labache L*, Orchard W*, Holmes AJ. (2023). A practical guide for generating reproducible and programmatic neuroimaging visualizations. *Aperture Neuro*, 3, 1-20.
5. Yang E, Milisav F, Kopal J, Holmes AJ, Mitsis GD, Mistic B, Finn ES, Bzdok D. (2023). The default network dominates neural responses to evolving movie stories. *Nature Communications*, 14(1), 4197.
6. Dhamala E*, Ooi LQR, Chen J, Ricard JA*. Berkeley E**, Chopra S*, Qu Y**, Zhang X-H**, Lawhead C*, Yeo BTT, Holmes AJ. (2023). Brain-based predictions of psychiatric illness-linked behaviors across the sexes. *Biological Psychiatry*, 94(6), 479-491. PMID: 37031778
7. Labache L*, Ge T, Yeo BTT, Holmes AJ. (2023). Language network lateralization is reflected throughout the macroscale functional organization of cortex. *Nature Communications*, 14, 3405.
8. Tiego J, Martin E, DeYoung CG, Hagan K, Cooper SE, Pasion R, et al. (2023). Precision behavioral phenotyping as a strategy for uncovering the biological correlates of psychopathology. *Nature Mental Health*, 1, 304–315.
9. Chen J, Ooi LQR, Tan TWK, Zhang S, Li J, Asplund CL, Eickhoff SB, Bzdok D, Holmes AJ, Yeo BTT. (2023). Relationship between prediction accuracy and feature importance reliability: an empirical and theoretical study. *NeuroImage*, 274, 120115. PMID: 37088322
10. Chopra S*, Zhang X-H**, Holmes AJ. (2023). Wavelike properties of functional dynamics across the cortical sheet. *Neuron*, 11(8), 1171-1173. PMID: 37080167
11. Peng G, Wang Y-S, Lu Q-Y, Rong M-J, Fan X-R, Holmes A, Dong H-M*, Li H-F, Zuo X-N. (2023). Brief mock-scan training reduces head motion in real scanning for children: a growth curve study. *Developmental Cognitive Neuroscience*, 61, 101244. PMID: 37062244
12. Yan X, Kong R, Xue A, Yang Q, Orban C, An L, Holmes AJ, Qian X, Chen J, Zuo X-N, Zhou JH, Fortier MV, Tan AP, Gluckman P, Chong YS, Meaney M, Bzdok D, Eickhoff SB, Yeo BTT. (2023). Homotopic local-global parcellation of the human cerebral cortex from resting-state functional connectivity. *NeuroImage*, 273, 120010. PMID: 36918136
13. Chin R**, Chang SWC, Holmes AJ. (2023). Beyond cortex: the evolution of the human brain. *Psychological Review*, 30(2), 285–307. PMID: 35420848
14. Orchard ER*, Rutherford HJV, Holmes AJ, Jamadar SD. (2023). Matrescence: lifetime impact of motherhood on cognition and the brain. *Trends in Cognitive Sciences*, 27(3), 302-316. PMID: 36609018
15. Dhamala E*, Yeo BTT, Holmes AJ. (2023). One size does not fit all: methodological considerations for predictive modeling in psychiatry. *Biological Psychiatry*, 93(8), 717-728. PMID: 36577634
16. Kalantar-Hormozi H, Patel R, Dai A, Ziolkowski J, Dong HM*, Holmes A, Raznahan A, Devenyi GA, Chakravarty MM. (2023). A cross-sectional and longitudinal study of human brain development: the integration of cortical thickness, surface area, gyrification index, and cortical curvature into a unified analytical framework. *NeuroImage*, 268, 119885. PMID: 36657692
17. Ricard JA**, Parker TC, Dhamala E*, Kwasa J, Allsop AS, Holmes AJ. (2023). Confronting racially exclusionary practices in the acquisition and analyses of neuroimaging data. *Nature Neuroscience*, 26, 4-11. PMID: 36564545
18. Kirk PA**, Holmes AJ+, Robinson OJ+. (2022). Anxiety and amygdala connectivity during movie-watching. *Biological Psychiatry: Global Open Science*, 169(3),

108194. [PMID: 35245529](#)
19. Ooi LQR, Chen J, Shaoshi Z, Kong R, Tam A, Li J, Dhamala E*, Zhou JH, [Holmes AJ](#), Yeo BTT (2022). Comparison of individualized behavioral predictions across anatomical, diffusion and functional connectivity MRI. *NeuroImage*, 263, 119636. [PMID: 36116616](#)
 20. Dhamala E*, Ooi LQR, Chen J, Kong R, Anderson KM**, Chin R**, Yeo BTT, [Holmes AJ](#). (2022). Proportional intracranial volume correction differentially biases behavioral predictions across neuroanatomical features, sexes, and development. *NeuroImage*, 260, 119485. [PMID: 35843514](#)
 21. He T, An L, Feng J, Bzdok D, [Holmes AJ](#), Eickhoff SB, Yeo BTT. (2022). Meta-matching: a simple framework to translate phenotypic predictive models from big to small data. *Nature Neuroscience*, 25, 795–804. [PMID: 35578132](#)
 22. Kirk PA**, [Holmes AJ](#)⁺, Robinson OJ⁺. (2022). Threat vigilance and intrinsic amygdala connectivity. *Human Brain Mapping*, 43, 3283–3292. [PMID: 35362645](#)
 23. Kim G-W, Farabaugh AH, Vettermann R, Holmes AJ, Nyer M, Nasirivanaki Z, Fava M, Holt DJ. (2022). Diminished frontal pole size and functional connectivity in young adults with high suicidality. *Journal of Affective Disorders*, 310, 484-492. [PMID: 35427718](#)
 24. Chen J, Tam A, Kebets V, Orban C, Rong Ooi LQ, Marek S, Dosenbach N, Eickhoff S, Bzdok D, Holmes AJ, Yeo BTT. (2022). Shared and unique brain network features predict cognition, personality and mental health in childhood. *Nature Communications*, 13, 1-17. [PMID: 35468875](#)
 25. Bethlehem RA, Seidlitz J, White SR, Vogel JW, Anderson KM**, Adamson C, et al. (2022). Brain charts for the human lifespan. *Nature*, 604, 525–533. [PMID: 35388223](#)
 26. Li J, Bzdok D, Chen J, Tam A, Qi Rong Ooi L, [Holmes AJ](#), Ge T, Patil KR, Eickhoff SB, Yeo BTT, Genon S. (2022). Cross-ethnicity/race generalization failure of behavioral prediction from resting-state functional connectivity. *Science Advances*, 8(11), eabj1812. [PMID: 35294251](#)
 27. Yip SW, Jordan A, Kohler R, [Holmes AJ](#), Bzdok D. (2022). Transgenerational impacts of the COVID-19 pandemic on minoritized and marginalized communities. *JAMA Psychiatry*, 79(4), 350–358. [PMID: 35138333](#)
 28. Sønderby IE, Ching CRK, Thomopoulos SI, van der Meer D, Sun D, Villalo JE, et al. (2022). Effects of copy number variations on brain structure and risk for psychiatric illness: large-scale studies from the ENIGMA Working Groups on CNVs. *Human Brain Mapping*, 43(1), 300-328. [PMID: 33615640](#)
 29. Frangou S, Modabbernia A, Doucet GE, Papachristou E, Williams SCR, Agartz I, et al. (2022). Cortical Thickness Trajectories across the Lifespan: Data from 17,075 healthy individuals aged 3-90 years. *Human Brain Mapping*, 43(1), 431-451. [PMID: 33595143](#)
 30. Dima D, Papachristou E, Modabbernia A, Doucet GE, Agartz I, Aghajani M, et al. (2022). Subcortical volume trajectories across the lifespan: Data from 18,605 healthy individuals aged 3-90 years. *Human Brain Mapping*, 43(1), 452-469. [PMID: 33570244](#)
 31. Wierenga LW, Doucet G, Dima D, Agartz I, Aghajani M, Akudjedu T, et al. (2022). Greater male than female variability in regional brain structure across the lifespan. *Human Brain Mapping*, 43(1), 470-499. [PMID: 33044802](#)
 32. Chen L-Z, [Holmes A](#), Dong Q, Zuo X-N. (2021). Neuroimaging brain growth charts: a road to mental health. *Psychoradiology*, 1(4), 272-286. [PMID: 35028568](#)
 33. Wang D, Peng X, Pelletier-Baldelli A, Orlov N, Farabaugh A, Nasr S, Eryilmaz H, Fava M, [Holmes AJ](#), Buckner RL, Roffman JL, Liu H, Holt D. (2021). Altered temporal, but intact spatial, features of transient network dynamics in psychosis. *Molecular Psychiatry*, 26, 2493-2503. [PMID: 33462330](#)
 34. Patrick LM**, Anderson KM**, [Holmes AJ](#). (2021). Local and distributed cortical markers of effort expenditure during sustained goal pursuit. *NeuroImage*, 244, 118602. [PMID: 34563679](#)

35. Barron DS, Baker JT, Budde KS, Bzdok D, Eickhoff SB, Friston K, et al., (2021). Decision models and technology can help psychiatry develop biomarkers. *Frontiers in Psychiatry*, 12, 10.3389/fpsy.2021.706655. [PMID: 34566711](#)
36. Kong X, Kong R, Orban C, Peng W, Zhang S, Anderson KM**, [Holmes AJ](#), Murray J, Deco G, van den Heuvel M, Yeo BTT. (2021). Sensory-motor cortices shape functional connectivity dynamics in the human brain. *Nature Communications*, 12, 6373. [PMID: 34737302](#)
37. Kong R, Yang Q, Gordon E, Xue A, Yan X, Orban C, Zou X-N, Spreng N, Ge T, [Holmes AJ](#), Eickhoff S, Yeo BTT. (2021). Individual-specific areal-level parcellations improve functional connectivity prediction of behavior. *Cerebral Cortex*, 1(10), 4477–4500. [PMID: 33942058](#)
38. Dong H-M*, Margulies DS, Zuo X-N, [Holmes AJ](#). (2021). Shifting gradients of macroscale cortical organization mark the transition from childhood to adolescence. *Proceedings of the National Academy of Sciences USA*, 118(28), e2024448118. [PMID: 34260385](#)
39. Sønderby I, van der Meer D, Moreau C, Kaufmann T, Walters G, Ellegaard M, et al. (2021). 1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans. *Translational Psychiatry*, 11, 182. [PMID: 33753722](#)
40. Nasirivanaki Z, Barbour T, Farabaugh AH, Fava M, [Holmes AJ](#), Tootell RBH, Holt DJ. (2021). Anxious attachment is associated with heightened responsivity of a parietofrontal cortical network that monitors peri-personal space. *Neuroimage: Clinical*, 30, 102585. [PMID: 33773165](#)
41. Anderson KM**, Ge T, Kong R, Patrick LM**, Spreng RN, Sabuncu MR, Yeo BTT, [Holmes AJ](#), (2021). Heritability of individualized cortical network topography. *Proceedings of the National Academy of Sciences USA*, 118(9), e2016271118. [PMID: 33622790](#)
42. Kiesow H, Spreng RN, [Holmes AJ](#), Chakravarty MM, Marquand AF, Yeo BTT, Bzdok D. (2021). Deep learning identifies partially overlapping subnetworks in the human social brain. *Communications Biology*, 4(1), 65. [PMID: 33446815](#)
43. Chen J, Müller VI, Dukart J, Hoffstaedter F, Baker JT, [Holmes AJ](#), Vatansever D, Nickl-Jockschat T, Liu X, Derntl B, Kogler L, Jardri R, Gruber O, Aleman A, Sommer IE, Eickhoff SB, Patil KR. (2021). Connectivity patterns of task-specific brain networks allow individual prediction of cognitive symptom dimension of schizophrenia and link to molecular architecture. *Biological Psychiatry*, 89(3), 308-319. [PMID: 33357631](#)
44. Spreng RN, Dimas E, Mwilambwe-Tshilobo L, Dagher A, Koellinger P, Nave G, Ong A, Kernbach J, Wiecki T, Ge T, Li Y, [Holmes AJ](#), Yeo BTT, Turner GR, Dunbar RIM, Bzdok D. (2020). The default network of the human brain is associated with perceived social isolation. *Nature Communications*, 11, 6393. [PMID: 33319780](#)
45. Dong H-M*, Castellanos FX, Yang N, Zhang Z, He Y, Zhang L, Xu T, [Holmes AJ](#), Yeo BT, Chen F, Wang B, Beckmann C, White T, Sporns O, Qiu J, Feng, T, Chen A, Liu X, Chen X, Weng X, Milham M, Zou X-N. (2020). Charting brain growth in tandem with brain templates at school age. *Science Bulletin*, 65(22), 1924-1934.
46. Anderson KM**, Collins MA**, Kong R, Fang K**, Li J, He T, Chekroud AM, Yeo BTT, [Holmes AJ](#). (2020). Convergent molecular, cellular, and cortical neuroimaging signatures of major depressive disorder. *Proceedings of the National Academy of Sciences USA*, 117(40), 25138–25149. [PMID: 32958675](#)
47. Boeke EA, [Holmes AJ](#), Phelps EA. (2020). Towards robust anxiety biomarkers: a machine learning approach in a large-scale sample. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5(8), 799-807. [PMID: 31447329](#)
48. Gruskin DC**, Rosenberg MD*, [Holmes AJ](#). (2020). Relationships between depressive symptoms and brain responses during emotional movie viewing emerge in adolescence. *Neuroimage*, 216, 116217. [PMID: 31628982](#)
49. Anderson KM**, Collins MA**, Chin R**, Ge T, Rosenberg M*, [Holmes AJ](#). (2020). Transcriptional and imaging-genetic association of cortical interneurons, brain function, and schizophrenia risk. *Nature Communications*, 11, 2889. [PMID: 32514083](#)

50. Latzman RD, DeYoung CG, The HiTOP Neurobiological Foundations Workgroup. (2020). Using empirically-derived dimensional phenotypes to accelerate clinical neuroscience: The Hierarchical Taxonomy of Psychopathology (HiTOP) framework. *Neuropsychopharmacology*, 45, 1083–1085. [PMID: 32109934](#)
51. Grasby KL, Jahanshad N, Painter JN, Colodro-Conte L, Bralten J, Hibar DP, et al. (2020). The genetic architecture of the human cerebral cortex. *Science*, 367(6484), 1340. [PMID: 32193296](#)
52. Hofer E, Roshchupkin GV, Adams HHH, Knol MJ, Lin H, Li S, et al. (2020). Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. *Nature Communications*, 11, 4796. [PMID: 32963231](#)
53. Barbour T, [Holmes AJ](#), DeCross SN, Ward M, Coombs G, Boeke EA, Wolthusen RPF, Beam E, Nyer M, Pedrelli P, Fava M, Harabaugh AH, Holt DJ. (2020). Elevated amygdala activity in youth with familial risk for depression: a potential marker of low resilience. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5(2), 194-202. [PMID: 31948836](#)
54. DeCross SN, Farabaugh AH, [Holmes AJ](#), Ward M, Boeke EA, Wolthusen RPF, et al. (2020). Increased amygdala-visual cortex connectivity in youth with persecutory ideation. *Psychological Medicine*, 50(2), 273-283. [PMID: 30744715](#)
55. He T, Kong R, [Holmes A](#), Nguyen M, Sabuncu M, Eickhoff SB, Bzdok D, Feng J, Yeo BTT. (2020). Deep Neural Networks and Kernel Regression Achieve Comparable Accuracies for Functional Connectivity Prediction of Behavior and Demographics. *Neuroimage*, 206, 116276. [PMID: 31610298](#)
56. Satizabal CL, Adams HH, Hibar DP, White CC, Knol MJ, Stein JL, et al., (2019). Genetic architecture of subcortical brain structures in 38,854 individuals worldwide. *Nature Genetics*, 51, 1624–1636.
57. Kebets V, [Holmes AJ](#), Orban C, Tang S, Li J, Sun N, Kong R, Poldrack RA, Yeo BTT. (2019). Somatosensory-motor dysconnectivity spans multiple transdiagnostic dimensions of psychopathology. *Biological Psychiatry*, 86(10), 779-791. [PMID: 31515054](#)
58. Elliott ML, Belsky DW, Anderson KM**, Corcoran DL, Ge T, Knodt A, Prinz JA, Sugden K, Williams B, Ireland D, Poulton R, Caspi A, [Holmes A](#), Moffitt T, Harari AR. (2019). A polygenic score for higher educational attainment is associated with larger brains. *Cerebral Cortex*, 29(8), 3496-3504. [PMID: 30215680](#)
59. Kong R, Li J, Sun N, Sabuncu MR, Schaefer A, Zou XN, [Holmes AJ](#), Eickhoff S, Yeo BTT. (2019). Spatial topography of individual-specific cortical networks predicts human cognition, personality and emotion. *Cerebral Cortex*, 29(6), 2533–2551. [PMID: 29878084](#)
60. Baker JT, Dillon DG, Patrick LP**, Roffman JL, Pizzagalli D, Öngür D, [Holmes AJ](#). (2019). Functional connectomics of affective and psychotic pathology. *Proceedings of the National Academy of Sciences USA*, 116(18), 9050-9059. [PMID: 30988201](#)
61. Li J, Kong R, Liegeois R, Orban C, Sun N, [Holmes AJ](#), Sabuncu MR, Ge T, Yeo T. (2019). Global signal regression strengthens association between resting-state functional connectivity and behavior. *Neuroimage* 196, 126-141. [PMID: 30974241](#)
62. Stanton CH, [Holmes AJ](#), Chang SWC, Joermann J. (2019). From stress to anhedonia: molecular processes through functional circuits. *Trends in Neurosciences*, 42, 23-42. [PMID: 30327143](#)
63. Kernbach JM, Yeo BTT, Smallwood J, Margulies D, de Schotten MT, Walter H, Sabuncu MR, [Homes AJ](#), Gramfort A, Varoquaux G, Thirion B, Bzdok D. (2018). Subspecialization within default mode nodes characterized 10,000 UK Biobank participants. *Proceedings of the National Academy of Sciences USA*, 115(48), 12295-12300. [PMID: 30420501](#)
64. Schaefer AL, Kong R, Gordon EM, Laumann TO, Zuo XN, [Holmes AJ](#), Eickhoff SB, Yeo BTT. (2018). Local-Global Parcellation of the Human Cerebral Cortex from Intrinsic Functional Connectivity MRI. *Cerebral Cortex*, 28, 3095-3114. [PMID: 28981612](#)
65. Anderson KM**, Krienen FM, Choi EY, Reinen JM*, Yeo BTT, [Holmes AJ](#). (2018). Gene

- expression links functional networks across cortex and striatum. *Nature Communications*, 9, 1428. [PMID: 29651138](#)
66. Reinen JM*, Chen OY**, Hutchison RM, Yeo BTT, Anderson KM**, Sabuncu MR, Öngür D, Roffman JL, Smoller JW, Baker JT, [Holmes AJ](#). (2018). The human cerebral cortex possesses a reconfigurable dynamic architecture that is disrupted in psychotic illness. *Nature Communications*, 9, 1157. [PMID: 29559638](#)
 67. [Holmes AJ](#), Patrick LP**. (2018). The myth of optimality in clinical neuroscience. *Trends in Cognitive Sciences*, 22(3), 241-257. [PMID: 29475637](#)
 68. Rosenberg MD*, Casey BJ, [Holmes AJ](#). (2018). Prediction complements explanation in understanding the developing brain. *Nature Communications*, 9, 589. [PMID: 29467408](#)
 69. Ge T, [Holmes AJ](#), Buckner RL, Smoller JW, Sabuncu MR. (2018). Reply to Risk and Zhu: Mixed effects modeling as a more principled approach to heritability analysis with repeat measurements. *Proceedings of the National Academy of Sciences USA*, 115(2), E123-E123. [PMID: 29288224](#)
 70. Ge T, [Holmes AJ](#), Buckner RL, Smoller JW, Sabuncu MR. (2017). Heritability analysis with repeat measurements and its application to resting-state functional connectivity. *Proceedings of the National Academy of Sciences USA*, 114(21), 5521-5526. [PMID: 28484032](#)
 71. Dal Monte O, Piva M, Anderson KA**, Marios T, [Holmes AJ](#), Chang SWC. (2017). Oxytocin under opioid antagonism leads to supralinear enhancement of social attention. *Proceedings of the National Academy of Sciences USA*, 114(20), 5247-5252. [PMID: 28461466](#)
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PUBLICATIONS (BOOK CHAPTERS):

1. Anderson KM**, Holmes AJ. (2021). Predicting cognitive ability: brain imaging and genetics. In: AK. Barbey, S. Karama, and R. Haier (Eds.), *The Cambridge Handbook of Intelligence and Cognitive Neuroscience*. Cambridge University Press, pp. 327-348.
2. Holmes AJ, MacDonald AW. (2020). Concepts and principles of clinical functional magnetic resonance imaging. In: AGC. Wright and MN. Hallquist (Eds.), *Handbook of Research Methods in Clinical Psychology*. Cambridge University Press, pp. 153-167.
3. Oscar-Berman M, Urban TA, Holmes AJ. (2016). Effects of alcoholism on neurological function and disease in adulthood. In: KJ. Sher (Ed.), *The Oxford Handbook of Substance Use Disorders*, Volume 2. Medicine-US.
4. Pizzagalli DA, Dillon DG, Bogdan R, Holmes A. (2011). Reward and punishment processing in the human brain: clues from affective neuroscience and implications for depression research. In: O. Vartanian and D. Mandel (Eds.), *Neuroscience of Decision Making*. Psychology Press, pp. 199-220.

PUBLICATIONS (SUBMITTED):

1. Chen P, An L, Wulan N, Zhang C, Zhang S, Ooi LQR, Kong R, Chen J, Wu J, Chopra S*, Bzdok D, Eickhoff SB, Holmes AJ, Yeo BTT. (Submitted). Translating phenotypic prediction models from big to small anatomical MRI data using meta-matching. *bioRxiv* 569848.
2. Dhamala E*, Ricard JA**, Uddin LQ, Galea LAM, Jacobs EG, Yip SW, Yeo BTT, Chakravarty MM, Holmes AJ. (Submitted). Considering the interconnected nature of social identities in neuroimaging research.
3. Dhamala E*, Bassett D, Yeo BTT, Holmes A. (Submitted). Functional brain networks are associated with both sex and gender in children. *bioRxiv* 566592.
4. Ricard J**, Labache L*, Segal A*, Dhamala E*, Cocussa CV*, Jones G, Yip S, Chopra S**, Holmes AJ[†]. (Submitted). A shared spatial topography links the functional connectome correlates of cocaine use disorder and dopamine D_{2/3} receptor densities. *bioRxiv* 567591.
5. Campos A, Torres SD, Rabinowitz J, Mitchell B, Grasby K, Thorp J, Agartz I, et al. (Submitted). Genomic analysis of intracranial and subcortical brain volumes in up to 73,436 individuals yields polygenic scores accounting for brain variation across ancestries.
6. Kong R, Uddin LQ, Betzel RF, Cohen JR, Damoiseaux JS, De Brigard D, Eickhoff SB, Fornito A, Gratton C, Gordon EM, Holmes AJ, Laird AR, et al. (Submitted). Consensus, convergence, and correspondence among functional brain network atlases.
7. Zhang X**, Dong H-M*, Anderson KM**, Chopra S*, Dhamala E*, Prashant E, Margulies D, Holmes A. (Submitted). The cellular underpinnings of the human cortical connectome. *bioRxiv* 547828.
8. Chopra S*, Dhamala E*, Lawhead C*, Ricard AJ*, Orchard ER*, An L, Chen P, Wulan N, Kumar P, Rubenstein A*, Moses J*, Chen L*, Levi P, Aquino K, Fornito A, Harpaz-Rotem I,

- Germine LT, Baker JT, Yeo BTT, [Holmes AJ](#). (Submitted). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. *medRxiv* 22283232.
9. Zhang S, Larsen B, Sydnor VJ, Zeng T, An L, Yan X, Kong R, Kong X, Gur RC, Gur RE, Moore TM, Wolf DH, [Holmes AJ](#), Xie Y, Zhou JH, Fortier MV, Tan AP, Gluckman P, Chong YS, Meaney M, Deco G, Satterthwaite TD, Yeo BTT. (Submitted). In-vivo whole-cortex estimation of excitation-inhibition ratio indexes cortical maturation and cognitive ability in youth. *bioRxiv* 546023.
 10. Dong H-M*, [Holmes AJ](#)+, Zuo X-N+. (Submitted). Decreased ventral attention network connectivity is linked to the accelerated maturation of adult-like cortical organization in childhood. *bioRxiv* 488101.
 11. Liu Z, Feng Y-CA, Li J, Kong R, Chen J, Ooi LQR, Chen C-y, [Holmes AJ](#), Roffman JL, Yeo BTT, Buckner RL, Smoller JM, Ge T. (Submitted). Population stratification in brain-behavior association studies.

PRESENTATIONS:

1. Chen P, An L, Wulan N, Chen J, Zhang S, Wu J, Eickhoff S, [Holmes A](#), Yeo BTT. (2023, July). Multilayer meta-matching: translating phenotypic predictive models from multi-datasets to small data. The Organization of Human Brain Mapping Conference, Montreal, Canada.
2. Yan X, Kong R, Xue A, Yang Q, Orban C, An L, [Holmes AJ](#), Qian X, Chen J, Zuo X-N, Zhou JH, Fortier MV, Tan AP, Gluckman P, Chong YS, Meaney M, Bzdok D, Eickhoff SB, Yeo BTT. (2023, July). Homotopic local-global parcellation of the human cerebral cortex from resting-state functional connectivity. The Organization of Human Brain Mapping Conference, Montreal, Canada.
3. Chopra S, Dhamala E, Lawhead C, Ricard J, Orchard E, An L, et al. (2023, July). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. The Organization of Human Brain Mapping Conference, Montreal, Canada.
4. Dhamala E, Ooi LQR, Chen J, Ricard J, Berkely E, Chopra S, Qi Y, Lawhead C, Yeo BTT, [Holmes A](#). (2023, July). Shared functional connections predict distinct psychiatric illness linked behaviors across the sexes. The Organization of Human Brain Mapping Conference, Montreal, Canada.
5. Zhang X, Anderson KM, Dong H-M, Chopra S, Dhamala E, Prashant E, Margulies D, [Holmes A](#). (2023, July). The cellular underpinnings of the macroscale functional organization of human cortex. The Organization of Human Brain Mapping Conference, Montreal, Canada.
6. Osayande N, Marotta J, [Holmes A](#), Yip S, Bzdok D. (2023, July). Diversity-aware population models capture varied neurodevelopmental trajectories in the ABCD cohort. The Organization of Human Brain Mapping Conference, Montreal, Canada.
7. Chin R, Anderson K, Yendiki A, [Holmes A](#). (2023, July). The genetic and cellular bases of white matter microstructure in late life. The Organization of Human Brain Mapping Conference, Montreal, Canada.
8. Ooi LQR, Orban C, Kong R, Zhou JH, [Holmes A](#), Eickhoff S, Yeo BTT. (2023, July). Optimizing RSFC prediction accuracy under a fixed scan budget: more participants or more scan time? The Organization of Human Brain Mapping Conference, Montreal, Canada.
9. Marotta J, Saltoun K, [Holmes A](#), Yip S, Bzdok D. (2023, July). Phenome wide investigation of population-level drivers of adolescent brain and cognitive development. The Organization of Human Brain Mapping Conference, Montreal, Canada.
10. Chopra S, Labache L, Dhamala E, Orchard E, [Holmes A](#). (2023, July). Brain-code: a web-app to generate brain visualization code templates for R and Python. The Organization of Human Brain Mapping Conference, Montreal, Canada.
11. Orchard E, Rutherford H, [Holmes A](#), Jamadar S. (2023, July). Matrescence: a novel

- framework for understanding neurocognition in motherhood across the lifespan. The Organization of Human Brain Mapping Conference, Montreal, Canada.
12. Chin R, Anderson K, Yendiki A, Holmes A. (2023, April). The genetic and cellular bases of white matter microstructure in late life. Annual Meeting of the Society for Biological Psychiatry, San Diego, CA.
 13. Labache L, Ge T, Yeo BTT, Holmes A. (2023, April). Atypical language network lateralization is reflected throughout the macroscale functional organization of cortex. Annual Meeting of the Society for Biological Psychiatry, San Diego, CA.
 14. Chopra S, Dhamala E, Lawhead C, Ricard J, Orchard E, An L, et al. (2023, April). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. Annual Meeting of the Society for Biological Psychiatry, San Diego, CA.
 15. Lawhead C, Chopra S, Bzdok D, Sharma V, Yip S, Yeo BTT, Holmes A. (2023, April). Parsing heterogeneity in trajectories of externalizing psychopathology across childhood and adolescence. Annual Meeting of the Society for Biological Psychiatry, San Diego, CA.
 16. Orchard E, Holmes A, Rutherford H, Jamadar S. (2023, April). Matrescence: a novel framework for understanding neurocognition in motherhood. Annual Meeting of the Society for Biological Psychiatry, San Diego, CA.
 17. Ricard J, Labache L, Chopra S, Dhamala E, Jones G, Harnett N, Yip S, Holmes A. (2023, April). The neural underpinnings of cocaine use disorder. Annual Meeting of the Society for Biological Psychiatry, San Diego, CA.
 18. Dhamala E, Ooi LQR, Qu Y, Ricard J, Berkeley E, Yeo BTT, Holmes AJ. (2022, November). White matter connectivity differentially predicts mental health traits in children and adolescent males and females. The Society for Neuroscience Conference, San Diego, CA.
 19. Ricard JA, Labache L, Chopra S, Dhamala E, Harnett NG, Jones G, Yip SW, Holmes AJ. (2022, November). The network-level correlates of cocaine use disorder. The Society for Neuroscience Conference, San Diego, CA.
 20. Chin R, Anderson KA, Yendik A, Holmes AJ. (2022, November). The genetic and cellular bases of white matter microstructure in late life. The Society for Neuroscience Conference, San Diego, CA.
 21. Qu Y, Chen J, Tam A, Ooi LQ, Yeo BTT, Holmes AJ. (2022, September). Shared brain network features in children predict both self-reported and parental internalizing and externalizing traits. The Society for Research in Psychopathology, Philadelphia, PA.
 22. Ricard J, Lawhead C, Chopra S, Chen L, Moses J, Blankenbaker C, Tao J, Fairbank-Haynes K, Kumar P, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker J, Holmes A. (2022, September). Characterizing functional connectomes across affective and psychotic illness. The Society for Research in Psychopathology, Philadelphia, PA.
 23. Chopra S, Lawhead C, Ricard JA, Blankenbaker C, An L, Wulan N, Chen P, Fairbank-Haynes K, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker JT, Holmes AJ. (2022 September). Leveraging phenotypic predictive models derived in large-scale datasets to boost brain-behavior predictions in clinical populations. The Society for Research in Psychopathology, Philadelphia, PA.
 24. Qu Y, Chen J, Tam A, Ooi LQR, Yeo BTT, Holmes A. (2022, July). Shared and unique brain network features predict child and parental internalizing and externalizing problems. Computational Psychiatry Course and More (CPC++), New York, NY.
 25. Zhang X, Dong H-M, Anderson KM, Chopra S, Prashant E, Baker J, Holmes A. (2022, July). The cellular underpinnings of the macroscale functional organization of human cortex. Computational Psychiatry Course and More (CPC++), New York, NY.
 26. Lawhead C, Ricard J, Chopra S, Chen L, Moses J, Blankenbaker C, Tao J, Fairbank-Haynes K, Kumar P, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker J, Holmes A. (2022, July). Developing an understanding of the functional connectomics of affective and psychotic illness. Computational Psychiatry Course and More (CPC++), New York, NY.

27. Holmes AJ (**Session Moderator**). (2022, June). Psychiatric neuroimaging: methods and applications. The Organization of Human Brain Mapping Conference, Glasgow, Scotland.
28. Holmes AJ (**Symposium Chair**), Dhamala E, Tian Y, Chen J, Li J. (2022, June). Machine learning in neuroimaging: from application to interpretation. The Organization of Human Brain Mapping Conference, Glasgow, Scotland.
29. Dhamala E, Ooi LQR, Chen J, Kong R, Anderson K, Chin R, Yeo BTT, Holmes A. (2022, June). Intracranial volume correction differentially biases brain-behavior predictions across populations. The Organization of Human Brain Mapping Conference, Glasgow, Scotland.
30. Kirk P, Holmes AJ, Skipper J, Robinson OJ. (2022, June). Can naturalistic fMRI widen our understanding of anxiety. The Organization of Human Brain Mapping Conference, Glasgow, Scotland.
31. Chen J, Ooi LQR, Asplund C, Eickhoff S, Holmes A, Yeo BTT. (2022, June). Prediction accuracy and test-retest reliability of feature importance for behavioral prediction. The Organization of Human Brain Mapping Conference, Glasgow, Scotland.
32. Dai A, Patel R, Devenyi GA, Markello RD, Moore TM, Dong H-M, Seidlitz J, Hansen JY, Holmes A, Satterthwaite TD, Chakravarty M. (2022, June). Linking morphometric patterns of the psychosis spectrum to cognition and functional gradients. The Organization of Human Brain Mapping Conference, Glasgow, Scotland.
33. Dhamala E, Ooi LQR, Chen J, Kong R, Anderson K, Yeo BTT, Holmes A. (2022, April). Intracranial volume correction differentially biases behavioral predictions across neuroanatomical features and populations. Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA.
34. Lawhead C, Ricard J, Chopra S, Chen L, Moses J, Blankenbaker C, Tao J, Fairbank-Haynes K, Kumar P, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker J, Holmes A. (2022, April). Toward an understanding of the functional connectomics of affective and psychotic illness. Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA.
35. Holmes AJ (**Symposium Chair**), Uddin L, Dhamala E, Bzdok D, Yip S. (2022, April). The future of psychiatry: promises and pitfalls in the use of big data. Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA.
36. Labache L, Yeo BTT, Holmes AJ. (2022, March). Atypical language network organization is reflected in the macroscale organization of the cortical sheet. Neurobiology of Language Conference, Key Issues and Ways Forward II, presented online due to COVID19.
37. Dhamala E, Kong R, Anderson KM, Ooi LQR, Chen J, Yeo BTT, Holmes A. (2021, November). Anatomical properties of individual-specific areal-level parcellations predict cognition and behavior. The Society for Neuroscience Conference, presented online due to COVID19.
38. Holmes AJ (**Symposium Chair**), Barton R, Shine JM, Krienen F, Pessoa L. (2021, September). Human brain evolution beyond the cerebral cortex. Meeting of the European Brain and Behaviour Society, Lausanne, Switzerland.
39. Chin R, Anderson K, Yendiki A, Holmes AJ. (June 2021). Variability in the genetic bases of white matter microstructure and cell-type associations in aging. The Organization of Human Brain Mapping Conference, presented online due to COVID19.
40. Dong H-M, Margulies DS, Zuo X-N, Holmes AJ. (June 2021). Shifting gradients of macroscale cortical organization mark the transition from childhood to adolescence. The Organization of Human Brain Mapping Conference, presented online due to COVID19.
41. Li J, Bzdok D, Chen J, Tam A, Qi Rong Ooi L, Holmes AJ, Ge T, Patil KR, Eickhoff SB, Yeo BTT, Genon S. (June 2021). Generalization failure of RSFC-based behavioral prediction in non-European pediatric population. The Organization of Human Brain Mapping Conference, presented online due to COVID19.
42. Holmes AJ (**Poster Session Moderator**). (June 2021). Modeling and Analysis – Activation. The Organization of Human Brain Mapping Conference, presented online due to COVID19.

43. Kong X, Kong R, Peng W, Zhang S, Anderson K, Holmes A, Murray J, Deco G, van den Heuvel M, Yeo BTT. (June 2020). Large-scale biophysically-plausible circuit modeling of time-varying functional connectivity. The Organization of Human Brain Mapping Conference, presented online due to COVID19.
44. Chen J, Tam A, Kebets V, Orban C, Ooi LQR, Marek S, Dosenbach N, Eickhoff S, Bzdok D, Holmes AJ, Yeo BTT. (June 2020). Shared and unique network features predict cognition personality and mental health in childhood. The Organization of Human Brain Mapping Conference, presented online due to COVID19.
45. Li J, Bzdok D, Holmes A, Yeo BTT, Genon S. (June 2020). Unfairness in RSFC-based behavioral prediction across African American and White American Samples. The Organization of Human Brain Mapping Conference, presented online due to COVID19.
46. Kim G-W, Farabaugh AH, Holmes A, Nyer M, Nasirivanaki Z, Fava M, Holt DJ. (2020, May). Medial prefrontal cortex volume and functional connectivity associated with suicidality in young adults. 75th Annual Meeting of the Society for Biological Psychiatry, presented online due to COVID19.
47. Holmes AJ (Discussant), Knutson B (Discussant), Yip S (Chair), Rosenberg M, Lichenstein S, Dombrovski A. (2020, April). Neural circuits of attention, substance-use, and suicidal behavior. International Society for Research on Impulsivity. On-line meeting due to Covid-19.
48. Li J, Bzdok D, Holmes A, Yeo T, Genon S. (2020, March). Not one model fits all: unfairness in RSFC-based prediction of behavioral data in African Americans. The Helmholtz AI Kick-Off meeting, Munich, Germany.
49. Patrick LP, Anderson KA, Holmes AJ. (2019, October). Neural mechanisms underlying effortful persistence. The Society for NeuroEconomics Meeting, Dublin, Ireland.
50. Holmes AJ (Symposium Chair), Zald D, Kotov R, Michelini G. (2019, September). Dimensional approaches to studying the neural bases of psychopathology. The Society for Research in Psychopathology, Buffalo, NY.
51. Holmes AJ. (2019, September). The functional connectomics of affective and psychotic pathology. The Society for Research in Psychopathology, Buffalo, NY.
52. Collins M, Anderson K, Holmes A. (2019, September). Community-level resources associate with individual variability in brain anatomy and function. The Society for Research in Psychopathology, Buffalo, NY.
53. Holmes AJ (Symposium Chair), Fulcher B, Arnatkevičiūtė A, Kebets V. (2019, June). Transcriptomics of brain function: from circuitry and networks through psychiatric illness. The Organization of Human Brain Mapping Conference, Rome, Italy.
54. Holmes AJ. (2019, June). In vivo structural and functional signatures of depression implicate somatostatin interneurons. The Organization of Human Brain Mapping Conference, Rome, Italy.
55. Anderson K, Collins M, Chin R, Ge T, Rosenberg M, Holmes A. (2019, June). Parvalbumin interneurons underlie in-vivo brain function and schizophrenia risk. The Organization of Human Brain Mapping Conference, Rome, Italy.
56. Alexander-Bloch A, Poldrack R, Holmes A, Duggirala R, Curran J, Blangero J, Glahn D. (2019, June). The localized genetic organization of fMRI functional connectivity. The Organization of Human Brain Mapping Conference, Rome, Italy.
57. Kebets V, Holmes A, Orban C, Tang S, Li J, Sun N, Kong R, Poldrack R, Yeo BTT. (2019, June). Somatosensory-motor dysconnectivity spans multiple transdiagnostic dimensions of psychopathology. The Organization of Human Brain Mapping Conference, Rome, Italy.
58. Li J, Kong R, Liegeois R, Orban C, Sun N, Holmes A, Sabuncu M, Ge T, Yeo BTT. (2019, June). Global signal regression enhances association between resting-state fMRI and behavior. The Organization of Human Brain Mapping Conference, Rome, Italy.
59. Kong R, Yang Q, Gordon E, Zuo X, Holmes A, Eickhoff SB, Yeo BTT. (2019, June). Individual-specific areal-level parcellations improve functional connectivity prediction of

- behavior. The Organization of Human Brain Mapping Conference, Rome, Italy.
60. Patrick LM, Anderson KM, Gruskin DC, Holmes AJ. (2019, June). Neural mechanisms underlying effortful persistence. Interdisciplinary Symposium on Decision Neuroscience, Durham, NC.
 61. Holmes AJ. (2019, May). The functional connectomics of affective and psychotic pathology. The Social and Affective Neuroscience Society Conference, Miami, FL.
 62. Ho EJ, Reinen J, Gruskin D, Patrick LM, Anderson KM, Seo H, Levy I, Holmes AJ. (2019, May). Brain bases of adaptive social functioning: linking emotion perception and learning. The Social and Affective Neuroscience Society Conference, Miami, FL.
 63. Nasiriavanaki Z, Barbour T, Tuominen L, Farabaugh A, Fava M, Holmes A, Mow J, Tootell R, Holt D. (2019, May). Insecure attachment is associated with over-responsivity of a parietofrontal network that monitors peri-personal space. 74th Annual Meeting of the Society for Biological Psychiatry, Chicago, IL.
 64. Chin R, Anderson KA, Collins MA, Yendik A, Holmes AJ. (2018, November). Metabolic cost of structural hubs in the human connectome. The Society for Neuroscience Conference, San Diego, CA.
 65. Rosenberg MD, Gruskin DC, Finn ES, Holmes AJ. (2018, November). Inter-subject dynamic functional connectivity: tracking functional network fluctuations during movie watching. The Society for Neuroscience Conference, San Diego, CA.
 66. Collins MA, Anderson KA, Chin R, Holmes AJ. (2018, November). Neural signatures of economic deprivation and genetic risk for depression. The Society for Neuroscience Conference, San Diego, CA.
 67. Patrick LM, Anderson KM, Holmes AJ. (2018, October). Neural mechanisms underlying effortful persistence. The Society for NeuroEconomics Meeting, Philadelphia, PA.
 68. Collins MA, Anderson KM, Chin R, Holmes AJ. (2018, September). Neural signatures of economic deprivation and genetic risk for depression. The Society for Research in Psychopathology, Indianapolis, IN.
 69. Ho EJ, Reinen J, Patrick LM, Gruskin D, Anderson KM, Seo H, Levy I, Holmes AJ. (2018, September). Brain bases of adaptive social functioning: linking emotion perception and learning. The Society for Research in Psychopathology, Indianapolis, IN.
 70. He T, Kong R, Holmes A, Sabuncu M, Bzdok D, Feng J, Yeo BTT. (2018, June). Is deep learning better than kernel regression for functional connectivity prediction of behavior? The 8th International Workshop on Pattern Recognition in Neuroimaging, Singapore.
 71. Kernbach J, Yeo BTT, Smallwood J, Margulies D, Walter H, Sabuncu M, Holmes A, Gramfort A, Varoquaux G, Thirion B, Bzdok D. (2018, June). Segregation and integration in the default mode network: a population brain-imaging study. The Organization of Human Brain Mapping Conference, Singapore.
 72. He T, Orban C, Holmes A, Sabuncu M, Bzdok D, Feng J, Yeo BTT. (2018, June). Is deep learning better than classical machine learning for fMRI-based prediction of human behavior? The Organization of Human Brain Mapping Conference, Singapore.
 73. Kong R, Li J, Sun N, Sabuncu M, Schaefer A, Zuo XN, Holmes A, Eickhoff S, Yeo BTT. (2018, June). Spatial topography of individual-specific cortical networks as a fingerprint of human behavior. The Organization of Human Brain Mapping Conference, Singapore.
 74. Tuominen L, Vettermann R, Ge T, Ho N, Holmes A, Sabuncu M, Smoller J, Lee P, Buckner R, Roffman J, Holt D. (2018, May). Genetic risk loading for schizophrenia, bipolar disorder, and major depression and hippocampal subregion volumes. 73rd Annual Meeting of the Society for Biological Psychiatry, New York, NY.
 75. Mow JL, Terechina O, Tuominen L, Barbour T, Farabaugh A, Fava M, Holmes A, Tootell RBH, Holt D. (2018, May). Time course of parietal cortex responses to intrusions into personal space. 73rd Annual Meeting of the Society for Biological Psychiatry, New York, NY.
 76. Ho EJ, Reinen J, Patrick LM, Anderson KM, Gruskin D, Seo H, Levy I, Holmes AJ. (2018,

- April). Brain bases of adaptive social functioning: linking emotion perception and learning. The Social and Affective Neuroscience Society Conference, Brooklyn, NY.
77. Holmes AJ (**Nanosymposium Chair**), Thompson PM, Anderson KM, Vertes P, Fox AS, Carey CE, Nikolova YS, Konopka G, Venkataraman A, Gregory MD. (2017, November). Methods for combined analysis of genetic information. The Society for Neuroscience Conference, Washington, DC.
 78. Anderson KM, Krienen FM, Choi E, Reinen JM, Yeo BTT, Holmes AJ. (2017, November). Gene expression associates with aspects of cortico-striatal networks in the human brain. The Society for Neuroscience Conference, Washington, DC.
 79. Patrick LM, Anderson KM, Holmes AJ. (2017, November). Neural mechanisms underlying effortful persistence. The Society for Neuroscience Conference, Washington, DC.
 80. Holmes AJ. (2017, September). Cortico-striatal gene expression associates with functional network architecture in the human brain. The Society for Research in Psychopathology, Denver, CO.
 81. Li J, Kong R, Sun N, Holmes A, Sabuncu M, Yeo BTT. (2017, June). Global signal regression strengthens associations between behavior and resting-state fMRI. The Organization for Human Brain Mapping Conference, Vancouver, Canada.
 82. Holmes AJ (**Symposium Chair**), Frank M, Hyde L, Swartz J, Bogdan R. (2017, June). The molecular and genetic basis of striatal function in health and disease. The Association for Psychological Science Annual Convention, Boston, MA.
 83. Holmes AJ. (2017, June). Cortico-Striatal gene expression associates with functional network architecture in the human brain. The Association for Psychological Science Annual Convention, Boston, MA.
 84. Roffman J, Soare T, Eryilmaz H, Rodriguez-Thompson, Lee P, Holmes A, Smoller J, Buckner R. (2017, March). Impact of fetal gene expression on cortical thickness in young adults. The International Congress on Schizophrenia Research. San Diego, CA.
 85. Holmes AJ (**Symposium Chair**), Gee D, Heller A, Nusslock R, Barch D. (2016, September). Network approaches in the study of psychiatric illness. The Society for Research in Psychopathology, Baltimore, MD.
 86. Holmes AJ, Patrick L, Dillon D, Kaiser R, Pizzagalli D, Buckner R, Öngür D, Baker J. (2016, September). Network-level fingerprints of psychiatric illness. The Society for Research in Psychopathology, Baltimore, MD.
 87. Anderson KM, Krienen FM, Choi EY, Reinen JM, Yeo BTT, Holmes AJ. (2016, September). Cortico-striatal gene expression mirrors functional network architecture in humans. Federation of European Neuroscience Societies Fall Brain Conference, Copenhagen, Denmark.
 88. Patrick LM, Baker JT, Dillon DG, Kaiser RH, Pizzagalli DA, Buckner RL, Öngür D, Holmes AJ. (2016, September). Disruption of frontoparietal control network in unipolar depression, bipolar disorder, and schizophrenia. Federation of European Neuroscience Societies Fall Brain Conference, Copenhagen, Denmark.
 89. Reinen JM, Yeo BTT, Hutchison RM, Baker JT, Roffman JL, Smoller JW, Buckner RL, Holmes AJ. (2016, September). Exploring the functional dynamics of large-scale brain networks within and across individuals. Federation of European Neuroscience Societies Fall Brain Conference, Copenhagen, Denmark.
 90. Kong R, Schaefer A, Holmes AJ, Eickhoff SB, Zou XN, Yeo BTT. (2016, June). Individual cerebral cortex parcellation with group-level spatial and connectivity priors. The Organization for Human Brain Mapping Conference, Geneva, Switzerland.
 91. Zuo XN, Yang N, Wang YS, Yan CG, Holmes A, Yeo BTT. (2016 June). Sex Differences in Resting-State Functional MRI Profiles: Signal-to-Noise Ratio and Connectivity. The Organization for Human Brain Mapping Conference, Geneva, Switzerland.
 92. Holmes AJ. (2016, May). Individual differences in cognitive control circuit anatomy link sensation seeking, impulsivity, and substance use. The Association for Psychological Science

- Annual Convention, Chicago, IL.
93. Schaefer A, Kong R, Gordon EM, Laumann T, Eickhoff SB, Zou XN, Holmes AJ, Yeo BTT. (2016, May). Cerebral cortex parcellation by fusion of local and global functional connectivity feature. The International Society for Magnetic Resonance in Medicine Annual Meeting, Singapore.
 94. Kong R, Schaefer A, Holmes AJ, Eickhoff SB, Zou XN, Yeo BTT. (2016, May). Individual subject functional connectivity parcellation with group-level spatial and connectivity priors. The International Society for Magnetic Resonance in Medicine Annual Meeting, Singapore.
 95. Reinen JM, Yeo BTT, Hutchison RM, Baker JT, Roffman JL, Smoller JW, Holmes AJ. (2015, October). Exploring the dynamic organization of the human brain at rest. The Society for Neuroscience Conference, Chicago, IL.
 96. Anderson KM, Patrick LM, Reinen JM, Holmes AJ. (2015, October). The neural correlates of dynamic goal pursuit. The Society for Neuroscience Conference, Chicago, IL.
 97. Dima D, Papachristou E, Turner J, Glahn DC, Hibar DP, van Erp T, Medland SE, Thompson PM, Frangou S, ENIGMA Lifespan Working Group. (2015, June). Subcortical brain volumes across the lifespan based on 10,722 people aged 2 to 92. The Organization for Human Brain Mapping Annual Conference. Honolulu, HI.
 98. Barbour T, Decross SN, Holmes AJ, Boeke EA, Wolthusen RPF, Crowell S, Coombs G, Nyer M, Buckner RL, Fava M, Farabaugh AH, Holt DJ. (2014, December). Insecure attachment in at-risk youth is associated with hyper-responsivity of a parietofrontal cortical network involved in social behavior. American College of Neuropsychopharmacology 51st Annual Meeting, Phoenix, AZ.
 99. Holt DJ, DeCross SN, Holmes AJ, Boeke EA, Wolthusen RPF, Crowell S, Coombs G, Nyer M, Buckner RL, Fava M, Farabaugh AH. (2014, December). Abnormal amygdala functional connectivity in youth with subclinical delusions. American College of Neuropsychopharmacology 51st Annual Meeting, Phoenix, AZ.
 100. Shafee R, Holmes AJ, Genovese G, Roffman J, Smoller J, Buckner R, McCarroll S. (2014, November). Common SNP heritability of brain structures and intracranial volume using MRI. The Society for Neuroscience Conference, Washington, DC.
 101. Ge T, Nichols TE, Holmes AJ, Lee PH, Buckner RL, Roffman J, Sabuncu MR, Smoller JW. (2014, September). Fast heritability analysis using genome-wide data via kernel machines. MICCAI Workshop on Imaging Genetics. Cambridge, MA.
 102. Beam EH, Coombs G, Boeke E, Corwell S, Hollinshead M, Fava MD, Farabaugh A, Holt DJ, Buckner RL, Holmes AJ. (2014, September). Frontoparietal network connectivity associates with executive functioning deficits in young adults at risk for depression. 4th Biennial Conference on Resting State/Brain Connectivity, Boston MA.
 103. Garrido L, Holmes A, Nakayama K. (2014, August). Functional connectivity of face and scene selective regions. 37th European Conference on Visual Perception, Belgrade, Serbia.
 104. Holmes AJ, Hollinshead MO, Roffman JL, Smoller JW, Buckner RL. (2013, November). Individual differences in sensation seeking co-varies with substance use and prefrontal cortical thinning in healthy young adults. The Society for Neuroscience Conference, San Diego, CA.
 105. Garrido L, Holmes A, Hollinshead M, Nakayama K. (2013, November). Functional connectivity patterns predict face selectivity. The Society for Neuroscience Conference, San Diego, CA.
 106. Gallagher P, Duncan L, McGrath L, Haddad S, Holmes AJ, Wolf A, et al. (2013, October). The human ortholog of acid-sensing ion channel gene ASIC1a is associated with panic disorder and amygdala structure and function. The 21st World Congress of Psychiatric Genetics, Boston MA.
 107. Admon R, Nickerson L, Dillon DG, Holmes AJ, Bogdan R, Kumar P, Fava M, Pizzagalli DA. (2013, September). Reduced fronto-striatal functional connectivity during reward processing in major depression. 27th Annual Meeting of the Society for Research in Psychopathology,

- Oakland, CA.
108. Holmes AJ, Lee PH, Hollinshead MO, Roffman JL, Buckner RL, Smoller JW. (2013, May). Amygdala-medial prefrontal circuit anatomy predicts negative affect, social functioning, and polygenic depression risk in healthy young adults. 68th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA.
 109. Roffman JL, Silverstein NJ, Holmes AJ, Lee PH, Hollinshead MO, Smoller JW, Buckner RL. (May 2013). Genetic variation across the folate metabolic pathway influences cortical thickness in healthy individuals. 68th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA.
 110. Garrido L, Holmes A, Hollinstead M, Buckner R, Nakayama K. (2013, May). The face network estimated by intrinsic functional connectivity employing a large sample (N = 296). Vision Sciences Society 13th Annual Meeting, Naples FL.
 111. Baker J, Holmes AJ, Buckner RL, Öngür D. (2012, December). Network-level disruptions in intrinsic functional connectivity across psychotic disorders. American College of Neuropsychopharmacology 51st Annual Meeting, Hollywood, FL.
 112. Roffman JL, Silverstein NJ, Holmes AJ, Lee PH, Hollinshead MO, Smoller JW, Buckner RL. (2012, December). Polygenic variation across the folate metabolic pathway influences frontal cortical thickness: implications for schizophrenia. American College of Neuropsychopharmacology 51st Annual Meeting, Hollywood, FL.
 113. Holmes AJ, Lee PH, Hollinshead MO, Roffman JL, Buckner RL, Smoller JW. (2012, October). Polygenic depression risk in young adults predicts decreased medial prefrontal thickness. The Society for Neuroscience Conference, New Orleans, LA.
 114. Baker J, Holmes AJ, Buckner RL, Öngür D. (2012, October). Disruption of the frontoparietal control network in schizophrenia and bipolar disorder: a common pathway for psychosis. The Society for Neuroscience Conference, New Orleans, LA.
 115. Hollinshead MO, Holmes AJ, Crowell S, Zad M, Buckner RL. (2012, October). Probing social function using movies of dynamic social interactions. The Society for Neuroscience Conference, New Orleans, LA.
 116. O'Keefe TM, Petrov VI, Buckner RL, Holmes AJ, Fariello GR. (2012, September). The informatics backbone of the brain genomics superstruct project open data release. The annual International Neuroinformatics Coordinating Facility Congress, Munich, Germany.
 117. Holmes AJ, Hollinshead M, Yeo BT, Roffman JL, Smoller JW, Buckner RL. (2011, November). Increased amygdala volume and decreased cingulate thickness reliably predict negative affect in the general population. The Society for Neuroscience Conference, Washington, DC.
 118. Buckner RL, Hollinshead M, Holmes AJ, Brohawn DG, Fagerness JA, O'Keefe T, Petrov V, Fariello G, Bakst L, Rubenstein S, Benner T, Sorensen G, Rosen BR, Smoller JW, Roffman JL. (2011, November). The Brain Genomics SuperStruct Project. The Society for Neuroscience Conference, Washington, DC.
 119. Holmes AJ, Hollinshead M, Yeo BT, Roffman JL, Smoller JW, Buckner RL. (2011, September). Evidence for a limbic anxio-affective syndrome in the general population. The Society for Research in Psychopathology Conference, Boston, MA.
 120. Lee PH, Holmes AJ, Fagerness J, Roffman J, Purcell SM, Buckner RL, Smoller JW. (2011, September). Genome-wide analyses of neuro-cognitive/brain-imaging phenotypes reveal enriched association of neuronal and psychiatric candidate genes. XIX World Congress on Psychiatric Genetics, Washington, DC.
 121. The Enhancing Neuroimaging Genetics through Meta-Analysis Consortium. (2011, June). Genome-wide association meta-analysis of hippocampal volume via the ENIGMA consortium. The 17th Annual Meeting of the Organization for Human Brain Mapping. Québec City, Canada.
 122. Bogdan R, Holmes AJ, Dillon DG, Pizzagalli DA. (2010, October). Reward learning and reward-related neural activation. Annual Meeting of the Social and Affective Neuroscience Society, Chicago, IL.

123. Pizzagalli DA, Holmes AJ, Dillon DG, Bogdan R, Dutra SJ, Perlis RH, Fava M. (2010, May). Major depression and variation in TREK1 gene are associated with blunted striatal responses to rewards. 65th Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA.
124. Holmes AJ, Bogdan R, Pizzagalli DA. (2009, October). Associations between serotonin transporter genotype and action monitoring: a possible endophenotype explaining increased vulnerability to depression. The Society for Neuroscience Conference. Chicago, IL.
125. Holmes AJ, Pizzagalli DA. (2009, September). Electrophysiological correlates of error commission in major depressive disorder: dissociable effects of task-relevant incentives. The 6th Joint EEG and Clinical Neuroscience Society – International Society for Neuroimaging in Psychiatry Conference. Atlanta, GA.
126. Dillon D, Bogdan R, Fagerness J, Holmes A, Perlis R, Pizzagalli D (2009, March). Variations in TREK1 genotype linked to antidepressant response are associated with potentiated neural response to rewards in humans. The 16th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
127. Pizzagalli DA, Holmes AJ. (2008, November). Executive dysfunction and abnormal error processing in major depression: focus on frontocingulate pathways. The 42nd Annual Association for Behavioral and Cognitive Therapies Convention. Orlando, FL.
128. Holmes AJ, Pizzagalli DA. (2008, October). Resting anterior cingulate gamma activity and adaptive stroop performance: further evidence of frontocingulate dysregulation in major depression. The Society for Psychophysiological Research 48th Annual Meeting, Austin, TX.
129. Chiu P, Holmes AJ, Pizzagalli DA. (2008, October). Dissociable recruitment of rostral anterior cingulate and inferior frontal cortex in emotional response inhibition. The Society for Psychophysiological Research 48th Annual Meeting, Austin, TX.
130. Pizzagalli DA, Holmes AJ, Dillon DG, Goetz EL, Birk JL, Ryan Bogdan R. (2008, September). Reduced caudate and nucleus accumbens response to monetary rewards in major depressive disorder. The Society for Research in Psychopathology 22nd Annual Meeting Pittsburgh, PA.
131. Steele K, Bogdan R, Holmes A, Meites T, Deveney C, Pizzagalli D. (2008, September). Resting left frontal alpha activity predicts an increased tendency to associate the self with happiness in remitted depressed subjects: a source localization EEG study. The Society for Research in Psychopathology 22nd Annual Meeting Pittsburgh, PA.
132. Pizzagalli DA, Dillon DG, Evins AE, Holmes AJ, Birk J, Goetz E, Pachas G, Loebel T. (2008, May). Effects of a single dose of Bupropion on the neural substrates of reward processing in major depression: a double-blind, placebo-controlled fMRI study. The 63rd Annual Convention of the Society for Biological Psychiatry, Washington, DC.
133. Holmes AJ & Pizzagalli D. (2007, November). The ERP correlates of action monitoring deficits in major depression. The 41st Annual Association for Behavioral and Cognitive Therapies Convention. Philadelphia, PA.
134. Holmes AJ & Pizzagalli D. (2007, November). The electrophysiological correlates of action monitoring in major depressive disorder: spatial localization and functional connectivity. The Society for Neuroscience Conference, San Diego, CA.
135. Dillon DG, Holmes AJ, Lyons-Ruth K, Pizzagalli DA. (2007, November). Effects of chronic stress on incentive processing in humans. The Society for Neuroscience Conference, San Diego, CA.
136. Holmes AJ & Pizzagalli D. (2007, October). The spatio-temporal dynamics of conflict-related processing in major depressive disorder. Society for Psychophysiological Research 47th Annual Meeting, Savannah, GA.
137. Meites T, Deveney C, Steele K, Holmes A, Pizzagalli D. (2007, October) Always look on the bright side of life: implicit depression and hopelessness. Society for Research in Psychopathology 21st Annual Meeting Iowa City, IA.
138. Pizzagalli D & Holmes AJ. (2007, May). Abnormal responses to errors in depression: Behavioral and electrophysiological correlates. Association for Psychological Science 19th

- Annual Convention, Washington, DC.
139. Holmes AJ & Pizzagalli D. (2006, October). Action monitoring and feedback effects in major depressive disorder: a 128-channel EEG study. The Society for Psychophysiological Research 46th Annual Meeting, Vancouver, British Columbia, Canada.
 140. Pizzagalli DA, Holmes AJ, Peccoralo LA, Davidson RJ, Cohen JD. (2006, September). Resting anterior cingulate gamma activity and abnormal responses to errors in depression: A source localization high-density EEG study. The Third Joint ECNS (EEG and Clinical Neuroscience Society) & ISNIP (International Society for Neuroimaging in Psychiatry) Conference, Boston, MA.
 141. Holmes AJ & Pizzagalli D. (2006, May). Task-relevant feedback effects on action monitoring within a subclinically depressed sample. American Psychological Society 18th Annual Convention, New York, NY.
 142. Petersen T, Fresco D, Graves L, Bogdan R, Holmes A, Fava M, Segal ZV. (2005, November). Extreme response style: change with antidepressant treatment and long-term stability. Association for Behavioral and Cognitive Therapies Convention, Washington, DC.
 143. Holmes AJ & Pizzagalli D. (2005, *presented online due to Hurricane*). Task feedback effects on conflict monitoring and executive control: relationship to subclinical measures of depression. The Society for Research in Psychopathology, Miami, FL.
 144. Barch DM, MacDonald AW, Braver TS, Carter CS, Kerns JG, Ursu S, Holmes AJ, Stenger AV, Cohen JD. (2003, October). Cognitive control and prefrontal cortex dysfunction in major depression: the role of psychotic features. The Society for Psychophysiological Research 43th Annual Meeting, Chicago, IL.
 145. Becker TM, Snitz BE, Kerns JG, Barch DM, Yablonsky EJ, Holmes A, Meiwald J, Cohen JD, Carter CS. (2003, November). Context processing deficits and associated hypofrontality predict functional outcome in first episode schizophrenia patients. The Society for Neuroscience Conference, New Orleans, LA.
 146. Holmes AJ, MacDonald AW, Carter CS, Barch DM, Stenger AV, Cohen JD. (2003, March). The specificity of context processing deficits associated with hypofrontality in schizophrenic patients: an event-related fMRI study. The International Congress on Schizophrenia Research, Colorado Springs, CO.
 147. Carter CS, MacDonald AW, Holmes A, Stenger VA. (2003, March). Prospective longitudinal fMRI study of prefrontal cortex based context processing in never medicated first-episode schizophrenia. The International Congress on Schizophrenia Research, Colorado Springs, CO.
 148. Kerns JG, MacDonald AW, Barch DM, Holmes A, Cohen JD, Carter CS. (2003, March). Context-processing deficits and decreased prefrontal cortex activity: Specific associations with unmedicated, first-episode schizophrenia and with disorganization symptoms. International Congress on Schizophrenia Research, Colorado Springs, CO.
 149. Carter CS, MacDonald AM, Holmes A, Kriley C, Cohen JD. (2002, April). Parsing hypofrontality: Contributions of dorsolateral prefrontal and anterior cingulate dysfunction to impaired executive functions on never medicated first episode psychosis. The Annual Convention of the Society for Biological Psychiatry, Philadelphia, PA.
 150. Carter CS, Barch DM, MacDonald AW, Ursu S, Holmes AJ, Cohen JD. (2000, April). Prefrontal related impairments in cognitive control are not specific to schizophrenia. International Congress on Schizophrenia Research, Whistler, British Columbia, Canada.

COLLOQUIUM AND INVITED LECTURES:

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| 2023 | The 6th International Conference of Human Brain Development (ICHBD2023), Beijing, China. |
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2022 Seminar Series, Eisenberg Depression Center/Department of Psychiatry, University of Michigan, Ann Arbor MI.

2022 Seminar Series, Department of Psychiatry, University of Pittsburgh, Pittsburgh PA.

2022 Departmental Colloquium Series, Psychology Department, Northeastern University, Boston MA.

2022 Seminar Series, Rutgers-Princeton Center for Computational Cognitive Neuropsychiatry, Piscataway NJ.

2022 Departmental Colloquium Series, Department of Psychology, University of Pennsylvania, Philadelphia PA.

2022 Psychosis Studies Meeting, Kings College, London England.

2022 MindCORE Seminar Series, University of Pennsylvania, Philadelphia PA.

2022 Departmental Colloquium Series, Department of Psychology and Neuroscience, Duke University, Durham, NC.

2021 Seminar Series, Learning Research and Development Center, University of Pittsburgh, Pittsburgh PA.

2021 Functional Neuroimaging and Bioinformatics speaker series, McLean Institute for Technology in Psychiatry, McLean Hospital, Belmont MA.

2020 Cognitive/Computational/Clinical Neuroscience speaker series, Columbia University/New York State Psychiatric Institute, New York NY.

2020 Center for Biomedical Image Computing and Analytics Seminar Series, University of Pennsylvania, Philadelphia PA.

2020 Miami Affective Neuroscience and Translational Experimental Enterprise Talk Series, University of Miami, Miami FL.

2020 Centre for Sleep & Cognition Talk Series, Clinical Imaging and Research Centre, National University of Singapore, Singapore.

2019 Cognition and Circuits Seminar Series, Montreal Neurological Institute, McGill University, Montreal Canada.

2019 Departmental Colloquium Series, Department of Statistics and Data Science, Yale University, New Haven CT.

2019 Departmental Colloquium Series, Psychology Department, Princeton University, Princeton NJ.

2018 Departmental Colloquium Series, Psychology Department, University of Hartford, Hartford CT.

2018 The Interface of Psychology, Neuroscience, and Genetics Summer Workshop, Psychology & Brain Sciences Department, Washington University, St Louis, MO

2018 Computational Psychiatry Meeting, Princeton University, Princeton NJ.

2018 Seminar Series, Rutgers-Princeton Center for Computational Cognitive Neuropsychiatry, Piscataway NJ.

2017 Social Brain Sciences Talk Series, Psychology Department, Dartmouth University, Hanover NH.

2017 Departmental Colloquium Series, Counseling & Clinical Psychology Department, Teachers College, Columbia University, New York NY.

2017 Neuroscience Graduate Program Seminar Series, Neuroscience Department, Brown University, Providence RI.

2017 Clinical Brownbag, Psychology Department, Northwestern University, Evanston IL.

2017 Research Seminar in Clinical Science, Psychology Department, Harvard University, Cambridge MA.

2015 Center for Depression, Anxiety, and Stress Research, Psychiatry Department, McLean Hospital, Belmont MA.

2015 Biological Sciences Training Program Lecture, Psychiatry Department, Yale University School of Medicine, New Haven CT.

- 2015 Research Seminar in Clinical Science, Psychology Department, Harvard University, Cambridge MA.
- 2015 Departmental Colloquium Series, Psychology Department, Wesleyan University, Middletown CT.
- 2014 fMRI Seminary Series, Magnetic Resonance Research Center, Yale University School of Medicine, New Haven CT.
- 2014 Current Works in Behavior, Genetics, and Neuroscience, Psychology Department, Yale University, New Haven CT.
- 2014 Here we go again -- replication in psychological science. Chair, Graduate Student Activities Committee sponsored faculty panel, Psychology Department, Yale University, New Haven CT.
- 2014 Cognition, Brain, & Behavior Research Seminar, Psychology Department, Harvard University, Boston MA.
- 2013 Current Works in Behavior, Genetics, and Neuroscience, Psychology Department, Yale University, New Haven CT.
- 2012 Psychiatric Genetics and Translational Research seminar, Massachusetts General Hospital, Boston MA.
- 2011 Martinos Brain and Cognition Talks series, Martinos Center, Massachusetts General Hospital, Boston MA.
- 2007 30th Annual Harvard University Fall Teaching Conference, Harvard University, Cambridge MA.
- 2007 Annual Winter Teaching Conference, Harvard University, Cambridge MA.
- 2006 Annual Fall Teaching Conference, Harvard University. Cambridge MA.

TEACHING:

- 2014-2023 Instructor – PSYC 737: Research Topics in Clinical and Affective Neuroscience (enrollment: ~5-12 per semester)
Yale University
- 2022 Instructor – PSYC 420/ CGSC 420/ NSCI 440: Topics in Clinical Neuroscience (enrollment: 23)
Yale University
- 2021 Instructor – PSYC 110: Introduction to Psychology (enrollment: 254)
Yale University
- 2017-2022 Instructor/Co-Instructor – PSYC 530/INP 530: Foundations of Neuroscience: Biological Bases of Human Behavior (enrollment: ~15-17 per semester)
Yale University
- 2021 Instructor – PSYC 699: Teaching in Psychology (enrollment: 4)
Yale University
- 2021 Instructor – PSYC 704: Current Work in Neuroscience (enrollment: 17)
Yale University
- 2021 Instructor – PSYC 110: Introduction to Psychology (enrollment: 254)
Yale University

- 2020 Instructor – PSYC 420/ CGSC 420/ NSCI 440: Topics in Clinical Neuroscience (enrollment: 17)
Yale University
- 2018-2019 Instructor – PSYC 110: Introduction to Psychology (enrollment: Fall: 82; Summer: 21)
Yale University
- 2017-2018 Instructor – PSYC 704: Current Work in Neuroscience (enrollment: 11)
Yale University
- 2016 Instructor – PSYC 110: Introduction to Psychology (enrollment Spring: 113; Fall: 176)
Yale University
- 2015 Instructor – PSYC 719b: History and Systems in Psychology (enrollment: 7)
Yale University
- 2014-2015 Instructor – PSYC 720: Current Work in Clinical Psychology (enrollment: 6)
Yale University
- 2014 Instructor – PSYC 718a: Diversity in Clinical Science and Practice (enrollment: 12)
Yale University
- 2007 Grader – PSYC 1855 Mood Disorders
Harvard University
- 2006-2007 Lead Departmental Teaching Fellow – Derek Bok Center for Teaching and Learning
Harvard University
- 2006-2007 Instructor – PSYC 3555 Instructional Styles in Psychology
Harvard University
- 2006 Writing Fellow – Graduate Writing Fellows Program
Harvard University

UNDERGRADUATE MENTORING AND ADVISING:

- 2014-2023 Research Supervisor – Psyc 490, 492, 495, 496, and 499: Supervised Research
Yale University
Niyati Neupane (2022)
Georgia Spurrier (2022, second reader)
Katie Malison (2021, second reader)
Gianna Meloni (2021)
Beryl Wang (2019, second reader)
Miriam Gerber (2019-2020)
Sarah Wie (2019-2020)
Kacey Fang (2017-2019)
Angelica Fuentes (2017, second reader)
Holly Shillan (2017, second reader)
Audrey Luo (2016-2017)
Kweku Djan (2016-2017)
Aneesha Ahluwalia (2016, second reader)

Vanessa Holman (2016, second reader)
Danielle Currin (2014-2016)
Emily Poirier (2014-2015)
Natalie Lapidés (2014-2015)
Drew Ward (2023, second reader)
Daniel Weiner (2015, second reader)
Caroline Diehl (2015, second reader)
Kimberly Fabian (2015, second reader)
William Moran (2015, second reader)

2006-2007 Research Supervisor – Psych 985 Junior Tutorial: Honors Thesis Preparation
Harvard University
Katherine Steele (2006-2007)

2003-2007 Research Supervisor – Psych 910r: Supervised Research
Harvard University
Katherine Steele (2005-2007)
Akshay Lohitsa (2005-2006)
April Timberlake (2004-2005)
Erika Cowman (2003-2004)

COMMITTEE MEMBERSHIP:

Dana Allswede (clinical), Dissertation Committee Chair, Yale
Kevin Anderson (neuroscience), Dissertation Committee, Yale
Emily Boeke (cognitive), Dissertation Committee, New York University
Rebecca Boswell (clinical), Dissertation Committee Chair, Yale
Grace Brennan (clinical), Reader 1st year project
Michael Bronstein (clinical), Reader 1st year project
Adam Chekound (cognitive), Dissertation Committee, Yale
Rowena Chin (neuroscience), Dissertation Committee, Yale
Yoonho Chung (clinical), Dissertation Committee Chair, Yale
Meghan Collins (clinical), Reader 1st year project, Pre-Dissertation Committee, Yale
Sunny Dutra (clinical), Dissertation Committee Chair, Yale
Prabaha Gangopadhyay (cognitive), Reader 1st year project, Pre-Dissertation Committee, Yale
Danielle Gerhard (clinical), Pre-Dissertation Committee, Yale
Erica Ho (clinical), Reader 1st year project, Pre-Dissertation Committee, Yale
Corey Horien (interdisciplinary neuroscience program), Qualifying Exam Committee, Yale
Jessica Joiner (cognitive), Dissertation Committee, Yale
Peter Kirk (Psychology & Language Sciences), Dissertation Committee, University College London
Gidon Levakov (cognitive), Thesis Committee, Ben-Gurion University of the Negev
Elizabeth Lewis (clinical), Reader 1st year project, Pre-Dissertation Committee, Yale
David Melnikoff (social), Dissertation Committee, Yale
Termara Parker (interdisciplinary neuroscience program), Dissertation Committee, Yale
Lauren Patrick (neuroscience), Dissertation Committee, Yale
Junli Ping (neuroscience), Dissertation Committee, Yale
Yueyue (Lydia) Qu (neuroscience), Dissertation Committee, Yale
Hannah Weinberg-Wolf (cognitive), Dissertation Committee, Yale
Michelle Worthington (clinical), Dissertation Committee, Yale
Nicholas Santascoy (social), Dissertation Committee, Yale
Rashina Seabury (clinical), Dissertation Committee, Yale

Zarrar Shehzad (cognitive), Dissertation Committee, Yale
Colin Stanton (clinical), Dissertation Committee, Yale
Ema Tanovic (clinical), Reader 1st year project, Pre-Dissertation Committee, Yale
Allie Yimeng Wang (social), Reader 1st year project, Pre-Dissertation Committee, Yale
Xihan Zhang (neuroscience), (neuroscience), Dissertation Committee, Yale
Amanda Zheutlin (clinical), Dissertation Committee, Yale

EDITORIAL BOARD/CONSULTING JOURNAL EDITOR:

2021-2023 Proceedings of the National Academy of Sciences USA
2018- Journal of Psychopathology and Clinical Science (formally the Journal of Abnormal Psychology)

AD HOC REVIEWER:

American Journal of Psychiatry (2018-2022)
Biological Psychiatry (2011-2021)
Biological Psychiatry: Cognitive Neuroscience and Neuroimaging (2016-2022)
Biological Psychiatry: Global Open Science (2021-2022)
Biological Psychology (2009-2012)
Biology of Mood and Anxiety Disorders (2014)
Behavioral and Brain Functions (2012)
Behavioral and Brain Sciences (2015)
Behavioral Neuroscience (2021)
Brain Imaging and Behavior (2015)
Brain Research (2011, 2014)
Brain Topography (2009)
Clinical Psychological Science (2013-2016)
Clinical Psychology Review (2011)
Cognition and Emotion (2006)
Cognitive Affective and Behavioral Neuroscience (2012-2014)
Cortex (2014)
eLife (2019)
Frontiers in Human Neuroscience (2013)
Gene, Brain and Behavior (2018)
Harvard Review of Psychiatry (2014)
Human Brain Mapping (2007, 2017, 2020)
International Journal of Psychophysiology (2009-2010)
JAMA Psychiatry/Archives of General Psychiatry (2012-2013, 2015, 2019-2022)
Journal of Affective Disorders (2008)
Journal of Neurophysiology (2006, 2016-2017)
Journal of Neuroscience (2013-2014, 2016-2020)
Journal of Personality and Social Psychology: Personality Processes and Individual Differences (2017)
Journal of Psychopathology and Clinical Science (formally the Journal of Abnormal Psychology; 2008, 2016, 2019-2022)
Molecular Psychiatry (2019)
Nature (2023)
Nature Communications (2018-2022)
Nature Human Behavior (2018-2019)
Nature Neuroscience (2018-2023)

Network Neuroscience (2021)
 Neurobiology of Disease (2011)
 NeuroImage (2012, 2014-2021)
 NeuroImage: Clinical (2016)
 Neuroimaging (2012)
 Neuron (2022)
 Neuropsychologia (2011-2012)
 Neuropsychopharmacology (2014-2018)
 PLoS ONE (2012)
 Proceedings of the National Academy of Sciences USA (2016-2021)
 Psychiatry and Clinical Neurosciences (2010)
 Psychiatry Research (2010, 2012)
 Psychological Medicine (2011)
 Psychoneuroendocrinology (2005)
 Psychopharmacology (2011)
 Psychophysiology (2007, 2010, 2012-2015)
 Schizophrenia Research (2014, 2020)
 Science (2022)
 Science Advances (2019)
 Scientific Reports (2019)
 Trends in Cognitive Sciences (2018-2022)
 WIREs Cognitive Science (2020)

RESEARCH GRANT REVIEW:

2023 Grant reviewer, NIH Brain Research Through Advancing Innovative Neurotechnologies (BRAIN) Initiative: Data Integration and Analysis, Experimental Standards, and Archives.
 2023 Grant reviewer, National Science Foundation (NSF)
 2021 Grant reviewer, NIH Director's Early Independence Awards (DP5)
 2019 Outside reviewer, European Research Council
 2009 Outside reviewer, University of Ghent (Belgium)

MENTORING

Postdocs

Current: Carrisa Cocuzza, Loïc Labache, Sidhant Chopra, Winnie Orchard
 Past: Elvisha Dhamala (Feinstein Institutes for Medical Research), Jenna Reinen (IBM Watson Health), Monica Rosenberg (University of Chicago), Hao-Ming Dong (Beijing Normal University)

PhD students

Current – Yale University: Rowena Chin, Yueyue (Lydia) Qu, Xihan Zhang
 Past: Kevin Anderson, Peter Kirk, Lauren Patrick

Undergraduates *Senior thesis writer

Past: Emily Berkeley, Eric Chiang, James Cross, Danielle Currin*, Kweku Djan, Kacey Fang*, Miriam Gerber*, Amrita Iyer, Natalie Lapidés*, Adrian Lin, Audrey Luo*, Gianna Meloni*, Raul Monraz, Emily Poirier*, Justin Shi, Levi Truong, Sarah Wie*

Study staff

Current: Kaley Joss

Past: Lia Chen (Cornell University), Oliver Chen (University of Oxford), David Gruskin (Columbia University), Connor Lawhead (Stony Brook University), Julia Moses (CUNY Graduate Center), Lauren Patrick (Yale University), Jocelyn Ricard (Stanford University), Bradley Wise (Cisco)

SERVICE AND OTHER EXPERIENCE:

2023- Brain Health Institute Neuro RECEPTR (Rutgers External Convention for Exceptionally Promising Trainee Research) planning committee, Rutgers University
2023-2024 Faculty Hiring Committee, Center for Advanced Human Brain Imaging Research, Rutgers University
2023-2024 Faculty Hiring Committee, Herbert and Jacqueline Krieger Klein Alzheimer's and Dementia Clinical Research and Treatment Center, Rutgers University
2021-2023 Wu Tsai Institute Neurocognition and Behavior Working Group, Yale University
2021-2023 Wu Tsai Institute Membership Committee, Yale University
2020-2023 YCDRF-Rosenfeld STEM undergraduate fellowship review committee, Yale University
2021-2022 Psychology Faculty Reading Group Co-Chair, Yale University
2019-2020 Yale Center for Research Computing Sensitive Data Cluster Focus Group, Yale University
2017-2019 Yale Center for Research Computing Steering Committee, Yale University; Faculty Lead for Focus Group on Grant Opportunities
2017-2023 Senior Thesis Awards Committee, Psychology Department, Yale University
2016-2023 Undergraduate Neuroscience Major Curriculum Committee, Yale University
2016-2019 Undergraduate Neuroscience Track Advisor, Yale University
2015-2016 Psychology Study Pool Faculty Coordinator, Yale University
2014-2023 Fellow of Berkeley College, Yale University
2005-2006 Psychology Graduate Student Organization Co-President, Harvard University
2004-2006 Psychology Study Pool Committee Member, Harvard University

MEMBERSHIPS:

Association for Psychological Science
European Brain and Behaviour Society
Federation of European Neuroscience Societies
Organization for Human Brain Mapping
Society for Neuroscience
Society for Neuroscience FUN (Faculty for Undergraduate Neuroscience)
Society for Research in Psychopathology
Society of Biological Psychiatry