

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE  
Curriculum Vitae

Date: 08/01/2022

Theodore Daniel Satterthwaite, MD, MA

Address: Richards Medical Labs, 5th floor  
3600 Hamilton Walk  
Philadelphia, PA 19104 United States of America

If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:  
none (U.S. citizen)

Education:

2000	B.A.	Williams College (Psychology: Neuroscience)
2006	M.D.	Washington University in St. Louis (Medicine)
2006	M.A.	Washington University in St. Louis (Biology: Neuroscience)

Postgraduate Training and Fellowship Appointments:

2006-2010	Resident in Psychiatry, Hospital of the University of Pennsylvania, Department of Psychiatry, Philadelphia
2010-2012	Neuropsychiatry Fellow, Hospital of the University of Pennsylvania, Department of Psychiatry, Neuropsychiatry Section, Philadelphia

Military Service:  
[none]

Faculty Appointments:

2014-2020	Assistant Professor of Psychiatry, University of Pennsylvania School of Medicine
2020-present	Associate Professor of Psychiatry, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2011-Present	Attending Physician, Hospital of the University of Pennsylvania, Philadelphia
2015-2019	Director of Image Analysis, Center for Neuroimaging in Psychiatry, University of Pennsylvania Perelman School of Medicine
2019-Present	Director, Penn Lifespan Informatics and Neuroimaging Center (PennLINC)

Other Appointments:

2007-Present	Member, Center for Neuroimaging in Psychiatry, University of Pennsylvania Perelman School of Medicine
2012-2014	Instructor, Department of Psychiatry, University of Pennsylvania

2013-Present	Pennsylvania Perelman School of Medicine Member, Center for Biomedical Computing and Image Analysis, University of Pennsylvania Perelman School of Medicine
2013-Present	Member, Center for Functional Neuroimaging, University of Pennsylvania Perelman School of Medicine
2013-Present	Member, Institute for Translational Medicine and Therapeutics, University of Pennsylvania Perelman School of Medicine
2014-Present	Member, Center for the Neuroscience of Depression and Stress, University of Pennsylvania Perelman School of Medicine
2014-Present	Member, Warren Center for Network and Data Science, University of Pennsylvania
2015-Present	Member, Neuroscience Graduate Group, University of Pennsylvania Perelman School of Medicine
2016-Present	Member, Bioengineering Graduate Group, University of Pennsylvania School of Applied Sciences and Engineering
2016-Present	Member, Center for Autism Research, Children's Hospital of Philadelphia
2016-Present	Member, Penn/CHOP Lifespan Brain Institute
2017-Present	Member, mindCORE, University of Pennsylvania

Specialty Certification:

2011	Diplomate, American Board of Psychiatry and Neurology
------	---

Licensure:

2006	Pennsylvania
------	--------------

Awards, Honors and Membership in Honorary Societies:

1999	Phi Beta Kappa, Williams College
2000	Magna Cum Laude, Williams College
2001-2006	Danforth Distinguished Scholar, Washington University in St. Louis School of Medicine
2002	Research Fellowship, Forum for International Health and Tropical Medicine, Washington University in St. Louis School of Medicine
2004	M.D./M.A. Research Fellowship, Washington University in St. Louis School of Medicine
2006	Hudgens Award for Research in Psychiatry, Washington University in St. Louis School of Medicine
2007	NIMH Clinical Research Scholars Program, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2008	"Penn Pearls" Award for Medical Student Education, University of Pennsylvania Perelman School of Medicine

2008	Schizophrenia Conference Travel Award, Department of Psychiatry, University of Pittsburgh
2008	Neuroleptic Malignant Syndrome Information Service New Investigator Award
2008	Health Emotion Institute Travel Award, University of Wisconsin
2008	Janssen Research Scholar, American Psychiatric Institute for Research and Education
2009	Junior Investigator Travel Award, Society of Biological Psychiatry
2009	Eli Lilly Resident Research Award, American Psychiatric Association
2009	Junior Investigator Colloquium Travel Award, American Psychiatric Association
2010	Lilly Research Fellowship, American Psychiatric Institute for Research and Education
2010	Laughlin Award, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2011	NARSAD Young Investigator Award
2013	Young Investigator Travel Award, American College of Neuropsychopharmacology
2013	Albert Stunkard Faculty Recognition Award for Clinical Education, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2014	Klerman Prize for Translational Research, Brain and Behavior Research Foundation
2014	Albert Stunkard Faculty Recognition Award for Clinical Education, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2014	Outpatient Attending Teaching Award, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2015	Biobehavioral Research Award for Innovative New Scientists (BRAINS), National Institute of Mental Health
2016	Martin P. Szuba Award for Excellence in Teaching and Research, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2017	Albert Stunkard Faculty Recognition Award for Clinical Education, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2018	Dean's Award for Excellence in Basic Science Teaching, University of Pennsylvania Perelman School of Medicine
2021	NIH MERIT Award, National Institute of Mental Health

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

2013-Present	Organization for Human Brain Mapping
2015-2019	Center for Addiction and Mental Health, Sleight Center for Youth in Transition (External Grant Reviewer)
2016	PSI Foundation (External Grant Reviewer)
2019-Present	Toronto Adolescent & Youth CAMH Cohort Study (External Advisory Board)
2020	Natural Sciences and Engineering Research Council of Canada external grant reviewer
2022-Present	Ludmer Center for Neuroinformatics, McGill University, Montreal, Canada (External Scientific Advisory Board)
<u>National:</u>	
2014-Present	Society for Neuroscience
2015-2018	Loan Repayment Program Grant Reviewer, National Institute of Health
2015-Present	Society of Biological Psychiatry (Associate Program Chair 2020-2021)
2016	Research Domain Criteria Project Grant (R01) Special Emphasis Panel, National Institute of Mental Health
2017-Present	American College of Neuropsychopharmacology (Associate Member, Program Committee member 2018-2020)
2017	Biobehavioral Research Awards for Innovative New Scientists (BRAINS R01) Special Emphasis Panel, National Institute of Mental Health
2017-Present	Human Connectome Project (External Scientific Advisory Committee, Lifespan Studies)
2017-Present	Silvio O. Conte Centers for Basic Neuroscience or Translational Mental Health Research (P50) Special Emphasis Panel, National Institute of Mental Health (Committee member: 2017, 2018, & 2021)
2018	Child Psychopathology and Developmental Disabilities (CPDD) Study Section, National Institute of Mental Health (Ad hoc member)
2019	K99/R00 "Pathway to Independence" Special Emphasis Panel, National Institute of Mental Health
2020	Biobehavioral Research Awards for Innovative New Scientists (BRAINS R01) Special Emphasis Panel, National Institute of Mental Health

2020 K99/R00 "Pathway to Independence" Special Emphasis Panel, National Institute of Mental Health

Editorial Positions:

2009-Present Ad-hoc reviewer, Journal of Neuroscience  
 2010-Present Ad-hoc reviewer, Biological Psychiatry  
 2010-Present Ad-hoc reviewer, Journal of Clinical Psychiatry  
 2010-Present Ad-hoc reviewer, Brain and Cognition  
 2010-Present Ad-hoc reviewer, NeuroImage  
 2010-Present Ad-hoc reviewer, Psychopharmacology  
 2011-Present Ad-hoc reviewer, Molecular Psychiatry  
 2012-Present Ad-hoc reviewer, Journal of the American Academy of Child and Adolescent Psychiatry  
 2012-Present Ad-hoc reviewer, JAMA Psychiatry  
 2013-Present Ad-hoc reviewer, Brain Connectivity  
 2013-Present Ad-hoc reviewer, Human Brain Mapping  
 2014-Present Ad-hoc reviewer, Proceedings of the National Academy of Sciences  
 2014-Present Ad-hoc reviewer, American Journal of Psychiatry  
 2014-Present Ad-hoc reviewer, Neuron  
 2014-Present Ad-hoc reviewer, Cerebral Cortex  
 2015-Present Ad-hoc reviewer, Developmental Cognitive Neuroscience  
 2015-Present Ad-hoc reviewer, Neuropsychopharmacology  
 2015-Present Ad-hoc reviewer, Biological Psychiatry: Cognitive Neuroscience and Neuroimaging  
 2016-Present Ad-hoc reviewer, Cell Reports  
 2016-Present Ad-hoc reviewer, Current Opinion in Behavioral Sciences  
 2016-Present Ad-hoc reviewer, Nature Communications  
 2017-Present Ad-hoc reviewer, eLife  
 2018-Present Ad-hoc reviewer, PLOS Biology  
 2019-2020 Guest Editor, Biological Psychiatry  
 2019-2020 Guest editor, eLife  
 2019-Present Ad-hoc reviewer, Trends in Cognitive Science  
 2020-Present Ad hoc reviewer, Frontiers in Neuroinformatics  
 2020-2021 Guest Editor, Developmental Cognitive Neuroscience  
 2020-Present Ad hoc reviewer, Science Advances  
 2021-Present Ad hoc reviewer, Biological Psychiatry: Global Open Science  
 2021-Present Ad hoc reviewer, Scientific Data  
 2022-Present Ad hoc reviewer, Nature Neuroscience

Academic and Institutional Committees:

2015-2020 Neuroscience Graduate Group Admissions Committee, University of Pennsylvania  
 2015 Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Grant Reviewer, Department of Psychiatry, University

	of Pennsylvania Perelman School of Medicine
2015-2017	Rotation Presentation Committee, Neuroscience Graduate Group, University of Pennsylvania School of Medicine
2015-2020	Psychiatric and Developmental Imaging Seminar Series (weekly seminar; series organizer)
2015-2022	Data safety monitoring board for "The effects of ondansetron on neural systems and symptoms associated with sensory phenomena," R21/R33, PI: Emily Stern, Ph.D. (Icahn School of Medicine at Mount Sinai)
2017-Present	Center for Advanced MRI & Spectroscopy Safety Committee, Department of Radiology, University of Pennsylvania Perelman School of Medicine
2017-2020	MindCORE Seminar Series Organizing Committee (Chair 2018-2019), Department of Psychology, University of Pennsylvania
2018	Impact Strategic Planning Committee, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2018-Present	Steering committee member, Penn/CHOP Lifespan Brain Institute
2018-Present	Steering committee member, CUBIC biomedical image analysis cluster, Department of Radiology, University of Pennsylvania Perelman School of Medicine
2018-2019	Faculty search committee member, Department of Child and Adolescent Psychiatry and Behavioral Sciences, Children's Hospital of Philadelphia
2019-Present	Steering committee member, Educating Physician Scientists in Psychiatry (NIH R25)
2020-Present	Steering committee member, Biomedical Postdoctoral Programs, University of Pennsylvania Perelman School of Medicine
2020-Present	Steering committee member, BrainSTIM center, University of Pennsylvania Perelman School of Medicine
2021-Present	Steering committee member, AI2D: Center For AI And Data Science For Integrated Diagnostics, University of Pennsylvania Perelman School of Medicine
2022-Present	Department of Radiology Research IT Infrastructure Initiative Working Group

Major Academic and Clinical Teaching Responsibilities:

2008-2009	"Practical psychopharmacology" - MS2/3 Psychiatry Clerkship Psychopharmacology Course (weekly)
2008-2009	Small group preceptor - MS1 Introduction to Interviewing Seminar (6 sessions)
2008-2009	Small group preceptor - MS1 Brain & Behavior Course (6 sessions)
2009-Present	"Data-driven antipsychotic prescribing" - Psychiatry PGY2 Psychosis Module
2009	"Cortico-limbic interactions in schizophrenia" - Neuropsychology Seminar Series, Department of Psychiatry
2009-2020	"Practical pharmacology for bipolar disorder" - MS2/3 Psychiatry

	Clerkship
2010	"Inter-related affective and cognitive dysfunction in schizophrenia" - Department of Psychiatry Grand Rounds
2011-2017	"Introduction to psychiatric neuroimaging" - Psychiatry PGY1 Clinical Neuroscience Course
2011-2017	"Neuroimaging as a tool for translational research in psychiatry" - Psychiatry PGY4 Advanced Neuroscience Course
2011-Present	Outpatient psychiatry clinic teaching attending (4 hours/week)
2011	"Neuroimaging-genomics: Challenges and opportunities" - Neuropsychology Seminar, Department of Psychiatry
2013	"Charting brain development with neuroimaging: The Philadelphia neurodevelopmental cohort" - Department of Radiology Grand Rounds
2013	"Motion artifact in resting state functional connectivity: Discovery, damage control, and implications for developmental neuroimaging" - Center for Autism Research, Children's Hospital of Philadelphia
2013-2016	Bioengineering PhD thesis committee for Harini Eavani
2013	Neuroscience rotation advisor for Stathis Gennatas
2013-2017	Undergraduate research mentor for Lauren Beard
2014	"Charting normal and abnormal brain development using multimodal MRI" - Neuropsychiatry Seminar, Department of Psychiatry
2014	Neuroscience rotation advisor for Sheila Shanmugan
2014-2017	Psychology PhD thesis advisor for Marieta Pehlivanova
2014-2018	Undergraduate research mentor for Mack Finkel
2015	"Brain development in health and disease" - Center for the Study and Treatment of Anxiety, Department of Psychiatry
2015	"Neurodevelopmental abnormalities in youth with psychosis spectrum symptoms: Evidence from multi-modal neuroimaging" - Dowshen Neuroscience Seminar, Department of Psychiatry
2015	"What can brain development teach us about psychopathology?" - Department of Child and Adolescent Psychiatry and Behavioral Sciences, Children's Hospital of Philadelphia
2015-2018	Post-doctoral fellowship advisor for Anup Sharma MD, PhD
2015-2019	Neuroscience PhD thesis advisor for Graham Baum
2015-2017	Neonatology fellowship research mentor for Rula Nassar, MD
2015-2019	Post-doctoral fellowship advisor for Antonia Kaczurkin, PhD
2015-2018	Neuroscience PhD thesis committee member for Sheila Shanmugan
2015	Neuroscience PhD candidacy exam committee for Ari Kahn
2015-2018	"Signal and noise: Relevance of data quality for network neuroscience" - BE 566: Network Science, Department of Bioengineering, School of Applied Sciences and Engineering
2015	External thesis MSc committee member for Tina Behdinin, University of Toronto
2015	"Biological models of psychiatric illness" - PSYCH 600: Psychopathology, Department of Psychology, School of Arts and

	Sciences
2016	"Linking abnormal brain development to psychopathology using neuroimaging" - Department of Psychiatry Grand Rounds
2016	"Sex differences in brain development: Relevance for psychopathology in youth" - Building Interdisciplinary Careers in Women's Health Seminar Series, Department of Psychiatry
2016	"Linking changes in the developing brain to emerging psychopathology in youth" - Department of Child and Adolescent Psychiatry and Behavioral Sciences Grand Rounds, Children's Hospital of Philadelphia
2016-2019	Neuroscience PhD thesis advisor for Cedric Xia (MSTP)
2016-2017	Post-doctoral fellowship advisor for Shi Gu, PhD
2016	Neuroscience PhD candidacy exam committee for Opey Alabi
2016	Bioengineering PhD candidacy exam committee for Andrew Murphy
2016-2018	"Career opportunities in psychiatry research" - Summer Medical Immersion Program for Undergraduates
2016-2018	Psychology PhD thesis co-advisor for Leonie Loffler (at RWTH Aachen, through the German International Research Training Group)
2016-2018	Psychology PhD thesis committee member for Melisa Felek (at RWTH Aachen, through the German International Research Training Group)
2016	"Understanding psychopathology using neuroimaging of brain development" - Philadelphia Veterans Affairs Medical Center Behavioral Health Grand Rounds
2016-2018	Biostatistics PhD thesis committee for Simon Vandekar
2016-2017	Biostatistics MS thesis committee for Alessandra Valcarel
2016	"Brain network development in adolescence: Relevance for cognition & psychiatric disorders" - Clinical Neurosciences Training Program Seminar Series
2016	"Charting normal and abnormal brain development using multi-modal neuroimaging" - Department of Neurology
2016	Neuroscience rotation advisor for Jared Zimmerman
2016-2017	Undergraduate research mentor for Anna Thompson
2017-2018	"Data quality and motion artifact in neuroimaging" - BSTA 715: Statistical Methods for Neuroimaging, Department of Biostatistics and Epidemiology
2017	Neuroscience PhD candidacy exam committee for Alice Dallstream
2017-2018	"Career development awards for biomedical imaging scientists" - Center for Biomedical Image Computing and Analysis, Department of Radiology
2017-2018	Mock study section for biomedical imaging - Center for Biomedical Image Computing and Analysis, Department of Radiology
2017	External thesis MSc committee member for Saba Shabab, University of Toronto



2017	"Understanding psychopathology through studies of brain network development" - NIMH Director's Symposium on Psychosis and 22Q, Department of Psychiatry
2017	"Development of executive function in youth" - PSYC 149: Introduction to Cognitive Neuroscience, Department of Psychology, School of Arts and Sciences
2017-2020	"Introduction to functional MRI" - MTR 601: Measurements in Imaging
2017	"The importance of data quality in neuroimaging studies" - Translational Neuroscience Lecture Series, Department of Psychiatry
2017	"Neuroimaging as a tool to chart normal and abnormal brain development" - Penn/CHOP Lifespan Brain Institute Research Symposium
2017-2021	Post-doctoral fellowship advisor for Zaixu Cui, PhD
2017-2020	Neuroscience PhD thesis committee chair for Harrison McAdams
2017	Neuroscience rotation advisor for Adam Pines
2017-2018	Post-baccalaureate / PennPREP research mentor for Robert Jirsaraie
2017-2019	Psychiatry research track mentor for Erica Baller, MD
2017-Present	"Neuroimaging as a tool for translational research in psychiatry" - Psychiatry PGY2 Translational Neuroscience Course
2018	"Using multi-modal neuroimaging to parse psychiatric diagnostic categories" - Outpatient Psychiatry Clinic
2018	Neuroscience rotation advisor for Dale Zhou
2018	"Brain imaging in psychiatry" - MS1 Brain & Behavior Course
2018	"Dimensional, trans-diagnostic studies of psychopathology using multi-modal neuroimaging" - Center for Weight and Eating Disorders, Department of Psychiatry
2018	"Best research practices: Managing multiple projects and collaborations" - Successful Careers in Psychological Sciences Discussion Series, mindCORE, Department of Psychology, School of Arts and Sciences
2018	Bioengineering candidacy exam committee for Chenying Zhao
2018-Present	Faculty mentorship committee for C. Alix Timko (Department of Psychiatry)
2018-2019	Department of Psychiatry faculty mentoring committee for Liisa Hantsoo, PhD
2018-Present	Neuroscience PhD thesis co-advisor for Dale Zhou
2018	Neuroscience rotation advisor for Kara McGaughey
2018-2022	Neuroscience PhD thesis advisor for Adam Pines
2018-2022	Psychiatry research track mentor for Sheila Shanmugan, MD, PhD
2018-2020	Psychology PhD thesis committee for Sarah Clark at Georgia State University
2018-2020	Post-doctoral fellowship advisor for Azeez Adebimpe, PhD
2018-Present	Post-doctoral fellowship advisor for Bart Larsen, PhD
2019-2022	Neuroscience PhD thesis committee chair for Ursula Tooley

2019-2021	Psychology PhD thesis committee for Lisa Yankowitz
2019	"Open and reproducible neuroscience"" - UPenn Library Science
2019-Present	Neuroscience PhD thesis advisor for Valerie Sydnor
2019-2020	Biostatistics masters thesis co-advisor for Melissa Martin
2019-2022	Post-doctoral fellowship co-advisor for Linden Parkes, PhD
2020	Bioengineering PhD thesis committee chair for Divya Jain
2020	Neuroscience PhD candidacy exam committee chair for Panagiotis Fotiadis
2020	Organization of Human Brain Mapping Student / Post-Doc Special Interest Group Invited Mentor
2020-Present	Biostatistics PhD thesis committee for Andrew Chen
2020-Present	Biostatistics PhD thesis committee for Sarah Weinstein
2020-Present	Biostatistics PhD thesis committee for Danni Tu
2020	"Recent progress in large scale studies of brain development for psychiatry" - Psychosis and development section meeting
2020	"Brain network development in youth: relevance for psychopathology" - Center for Neuroengineering and Therapeutics
2020	Bioengineering PhD candidacy exam committee for Lasya Sreepada
2020-Present	Bioengineering PhD thesis committee for Christopher Olm
2020-2022	Bioengineering PhD thesis committee for Dushyant Sahoo
2020-Present	Post-doctoral fellowship advisor for Erica Baller, MD
2020-2022	Post-doctoral fellowship advisor for Jacob Vogel, PhD
2021	Bioengineering rotation advisor for Chenying Zhao
2021-Present	Biostatistics PhD thesis committee for Benny Ren
2021	Bioengineering PhD candidacy exam committee for Tianjia Zhu
2021-Present	Faculty mentorship committee for Jennifer Goldschmied (Department of Psychiatry)
2021-Present	Faculty mentorship committee for Jeff Phillips (Department of Neurology)
2021-Present	Research-track resident mentorship committee for Robert Seilheimer (Department of Psychiatry)
2021-Present	Faculty mentorship committee for Jason Jones (Department of Psychiatry)
2021-Present	Post-doctoral fellowship advisor for Arielle Keller, PhD
2021-Present	Neuroscience PhD thesis advisor for Audrey Luo (MSTP)
2021-Present	Bioengineering PhD thesis advisor for Chenying Zhao
2021	Neuroscience rotation advisor for Margaret Gardner
2021	Neuroscience rotation advisor for Margaret Pecsock
2021-Present	Bioengineering masters research advisor for Nob Premrudeepreechacharn
2022	Biostatistics PhD candidacy exam committee for Christina Chen
2022-Present	Bioengineering PhD thesis committee for Adam Rayfield
2022-Present	Faculty mentorship committee for Heather Nuske (Department of Psychiatry)
2022-Present	Bioengineering PhD thesis committee for Tianjia Zhu
2022	"Development of the association cortices in youth" - Keynote

	Speaker for Social, Cognitive, and Affective, Neuroscience certificate program annual retreat, Department of Psychology
2022-Present	Post-doctoral fellowship advisor for Sheila Shanmugan MD, PhD
2022	Neuroscience rotation advisor for Joelle Bagautdinova
2022-Present	Post-doctoral fellowship advisor for Hamsi Radhakrishnan, PhD

Lectures by Invitation (Last 5 years):

Jun, 2017	"Flexible analyses of brain development using general additive models" - Statistical Methods in Imaging Conference, Pittsburgh, Pennsylvania
Jul, 2017	"Discovering linked dimensions of functional connectivity and psychopathology using multi-view learning" - Joint Statistical Meeting, Baltimore, Maryland
Aug, 2017	"Normal and abnormal development of executive networks in adolescence" - Department of Child Psychiatry, Erasmus University, Rotterdam, Netherlands
Oct, 2017	"Challenges and progress in multi-modal imaging of developmental psychopathology" - International Conference on Human Brain Development, Nanning, China
Dec, 2017	"Common and dissociable substrates of psychopathology across clinical diagnostic categories in youth" - American College of Neuropsychopharmacology, Palm Springs, California
Feb, 2018	"Understanding and accounting for the impact of data quality in studies of functional connectivity" - Department of Psychology, University of Miami, Miami, Florida
Feb, 2018	"Mapping abnormalities of brain network development to dimensions of psychopathology" - Department of Psychology, University of Miami, Miami, Florida
Mar, 2018	"Normal brain network development and abnormalities associated with psychopathology in youth" - Whistler Scientific Workshop on Brain Functional Organization, Connectivity, and Behavior, Whistler, Canada
Mar, 2018	"Brain networks in adolescence: Normative development and associations with psychopathology" - Department of Child Psychiatry Grand Rounds, New York University Langone School of Medicine, New York, New York
May, 2018	"Development of brain modules and abnormalities associated with psychopathology" - Flux Congress Satellite, Chapel Hill, North Carolina
May, 2018	"Mapping heterogeneity across the lifespan using machine learning and multi-modal imaging" - Society of Biological Psychiatry, New York, New York
Sep, 2018	"Understanding heterogeneity in developmental psychopathology with multi-modal neuroimaging" - Department of Psychiatry Grand Rounds, Duke University, Durham, North Carolina
Dec, 2018	"Using machine learning to discover networks associated with

- dimensions of psychopathology in youth" - American College of Neuropsychopharmacology, Hollywood, Florida
- Jan, 2019 "Developing brain networks: Advances, challenges, and relevance for psychiatry" - Neuroimaging Seminar Series, Washington University in St Louis, St. Louis, MO
- Feb, 2019 "Multi-modal brain growth charts" - Center for Imaging Science Seminar Series, Johns Hopkins University
- Apr, 2019 "Developing brain networks: relevance for psychiatry" - Killian Seminar, Montreal Neurological Institute, Montreal, Canada
- Apr, 2019 "Using multi-modal imaging to understand brain development" - Department of Neurology Grand Rounds, Montreal Neurological Institute, Montreal, Canada
- Jun, 2019 "Integrating complex data to study brain development" - Organization of Human Brain Mapping, Rome, Italy
- Sep, 2019 "Charting the development of personalized brain networks in adolescence " - National Academies of Sciences, Engineering, and Medicine, Washington, D.C.
- Oct, 2019 "Normal and abnormal brain development in youth: Evidence from multi-modal imaging" - Cornell University Institute for Developmental Psychobiology, New York, New York
- Oct, 2019 " Opportunities and challenges in large-scale imaging studies of brain development" - Science and Technology Seminar Series, Duke University, Durham, North Carolina
- Oct, 2019 "Motion artifact in functional connectivity" - National Neuroimaging Meeting, Centro de Investigación en Matemáticas, Guanajuato, Mexico
- Oct, 2019 "Multi-modal imaging of brain development patterns associated with psychopathology" - National Neuroimaging Meeting, Centro de Investigación en Matemáticas, Guanajuato, Mexico
- Feb, 2020 "Understanding Brain Network Development and Disruptions Across Psychiatric Disorders" - University of California, Irvine
- Jun, 2020 "Development of personalized association networks in youth" - NIH Brain Initiative Annual Meeting
- Aug, 2020 "Large scale studies of brain development and psychopathology" - C3N Seminar Series, Columbia University Departments of Psychiatry and Neuroscience
- Sep, 2020 "Large-scale studies of Brain Development in Youth: Opportunities and Challenges" - Martinos Center for Biomedical Imaging, Harvard University
- Dec, 2020 "Development of the Association Cortices" - Nathan Kline Institute for Psychiatric Research, Orangeburg, New York
- Jan, 2021 "Individual Variation in Functional Topography of Association Networks in Youth" - Nash Family Center for Advanced Circuit Therapeutics, Icahn School of Medicine at Mount Sinai
- Feb, 2021 "Charting brain development in youth with multi-modal imaging" - Neuroscience and Cognitive Science Colloquium, University of

	Maryland
Feb, 2021	"Understanding psychiatric heterogeneity with neuroimaging and machine learning" - Frank Shobe Honorary Lecture, Department of Psychiatry Grand Rounds, Washington University in St. Louis
Apr, 2021	"Large scale studies of the developing brain" - Center for Brain, Behavior, and Cognition, Penn State University
Apr, 2021	"Challenges and Opportunities for Understanding Psychopathology with Large-Scale Studies of Brain Development" - Department of Psychiatry Grand Rounds, Renaissance School of Medicine at Stony Brook University
Jun, 2021	"Development of Association Cortices: _Normative Patterns and Implications for Psychopathology" - Keynote Lecture, Annual Meeting of the Organization of Human Brain Mapping
Oct, 2021	"Understanding the Development of Executive Function in Youth" - Center for Vital Longevity, University of Texas, Dallas
Nov, 2021	"Mapping the Protracted Development of Association Cortices in Youth" - Annual Magnetic Resonance Imaging Symposium, Centre for Translational MR Research, Yong Loo Lin School of Medicine, National University of Singapore
Nov, 2021	"Mapping the Developing Brain to Understand Psychopathology in Youth" - Department of Psychiatry Grand Rounds, Beth Israel Deaconess Medical Center
Dec, 2021	"Understanding Irritability with Machine Learning and Large-scale Neuroimaging" - American College of Neuropsychopharmacology, San Juan, Puerto Rico
Jan, 2022	"Understanding Borderline Personality Disorder Using Large-Scale Neuroimaging Studies" - AE Foundation, Philadelphia, PA
Jan, 2022	"Scalable Studies of Individual-specific Behavior Using Mobile Phenotyping" - Functional Neuroimaging & Bioinformatics Lab, Department of Psychiatry, Harvard University
Jan, 2022	"Reproducible Processing of fMRI data" - ABCD Analytics Group, University California, San Diego
Feb, 2022	"Mapping the Development of Association Cortices to Understand Psychopathology in Youth" - EJ Brady Honorary Lecture, Department of Psychiatry Grand Rounds, University of Colorado
May, 2022	"Methods and Data Resources for Reproducible Large-Scale Studies of the Developing Brain" - ReproNim Center for Reproducible Neuroimaging Computation, University of Massachusetts & Massachusetts Institute of Technology
May, 2022	"Using Personalized Functional Networks to Understand Development and Psychopathology in Youth" - Annual O'Donnell Jr. Brain Institute Symposium: Frontiers of Neuromodulation, Peter O'Donnell Jr. Brain Institute, UT Southwestern Medical Center
May, 2022	"Biomarker Potential of fMRI for Trials of Psychedelics: Methodological and Interpretive Considerations" - Annual Psychedelic Therapeutics and Drug Development Conference,

Washington, DC

Organizing Roles in Scientific Meetings:

Jun, 2016	Session Chair: "Big Data for Studies of Brain Development," Annual Meeting of the Organization of Human Brain Mapping Geneva, Switzerland
Sep, 2016	Scientific Advisory Board, Flux Congress St. Louis, Missouri
Sep, 2016	Session Chair: "The ABCD Study," Flux Congress St. Louis, Missouri
Jun, 2017	Session Chair: "Lifespan Brain Imaging Studies," Annual Meeting of the Organization of Human Brain Mapping Vancouver, Canada
Jun, 2018	Discussant: "Current challenges in imaging statistics," Statistical Methods in Imaging Philadelphia, Pennsylvania
Dec, 2018	Program Committee, Annual Meeting of the American College of Neuropsychopharmacology Hollywood, Florida
Dec, 2019	Program Committee, Annual Meeting of the American College of Neuropsychopharmacology Orlando, Florida
Sep, 2020	Program Committee, Flux Developmental Cognitive Neuroscience Congress Virtual due to COVID-19
Sep, 2020	Session Chair: "Advances in Analytics for Developmental Neuroscience," Flux Developmental Cognitive Neuroscience Congress Virtual due to COVID-19
Sep, 2020	Breakout session moderator, NIH Blueprint for Neuroscience Research: Addressing Neuroimaging Challenges Across Populations and Settings Workshop Virtual due to COVID-19
Apr, 2021	Associate Program Chair, Annual Meeting of the Society of Biological Psychiatry Virtual Due to COVID 19
Dec, 2021	Program Committee, Annual Meeting of the American College of Neuropsychopharmacology San Juan, Puerto Rico

Bibliography:Research Publications, peer reviewed (print or other media):

1. Satterthwaite TD, Green L, Myerson J, Parker J, Ramaratnam M, Buckner RL:  
Dissociable but inter-related systems of cognitive control and reward during  
decision making: Evidence from pupillometry and event-related fMRI.  
NeuroImage 37(3): 1017-31, Sep 2007.

2. Satterthwaite TD, Wolf DH, Rosenheck RA, Gur RE, Caroff SN: A meta-analysis of the risk of acute extrapyramidal symptoms with intramuscular antipsychotics for the treatment of agitation. The Journal of Clinical Psychiatry 69(12): 1869-79, Dec 2008.
3. Satterthwaite TD, Wolf DH, Gur RC, Ruparel K, Valdez JN, Gur RE, Loughead J: Frontolimbic responses to emotional face memory: The neural correlates of first impressions. Human Brain Mapping 30(11): 3748-58, Nov 2009.
4. Satterthwaite TD, Wolf DH, Loughead J, Ruparel K, Valdez JN, Siegel SJ, Kohler CG, Gur RE, Gur RC: Association of enhanced limbic response to threat with decreased cortical facial recognition memory response in schizophrenia. The American Journal of Psychiatry 167(4): 418-26, Apr 2010.
5. Cristancho MA, Satterthwaite TD, O'Reardon JP: Cardiac complications of ECT: myocardial stunning syndrome and takotsubo cardiomyopathy after ECT: different names for the same phenomenon. The Journal of ECT 26(2): 146-7, Jun 2010 Notes: doi: 10.1097/YCT.0b013e3181c185e7.
6. Satterthwaite TD, Wolf DH, Pinkham AE, Ruparel K, Elliott MA, Valdez JN, Overton E, Seubert J, Gur RE, Gur RC, Loughead J: Opposing amygdala and ventral striatum connectivity during emotion identification. Brain and Cognition 76(3): 353-63, Aug 2011.
7. Wolf DH, Gerraty R, Satterthwaite TD, Loughead J, Campellone T, Elliott MA, Turetsky BI, Gur RC, Gur RE: Striatal intrinsic reinforcement signals during recognition memory: Relationship to response bias and dysregulation in schizophrenia. Frontiers in Behavioral Neuroscience 5: 81, Dec 2011.
8. Wolf DH, Satterthwaite TD, Loughead J, Pinkham A, Overton E, Elliott MA, Dent GW, Smith MA, Gur RC, Gur RE: Amygdala abnormalities in first-degree relatives of individuals with schizophrenia unmasked by benzodiazepine challenge. Psychopharmacology 218(3): 503-12, Dec 2011.
9. Satterthwaite TD, Wolf DH, Loughead J, Ruparel K, Elliott MA, Hakonarson H, Gur RC, Gur RE: Impact of in-scanner head motion on multiple measures of functional connectivity: Relevance for studies of neurodevelopment in youth. NeuroImage 60(1): 623-32, Mar 2012.
10. Seidel E, Satterthwaite TD, Eickhoff SB, Schneider F, Gur RC, Wolf DH, Habel U, Derntl B: Neural correlates of depressive realism - an fMRI study on causal attribution in depression. Journal of Affective Disorders 138(3): 268-76, May 2012.
11. Eavani H, Filipovych R, Davatzikos C, Satterthwaite TD, Gur RE, Gur RC: Sparse

dictionary learning of resting state fMRI networks. International Workshop on Pattern Recognition in NeuroImaging Page: 73-76, Jul 2012.

12. Satterthwaite TD, Ruparel K, Loughead J, Elliott MA, Gerraty RT, Calkins ME, Hakonarson H, Gur RC, Gur RE, Wolf DH: Being right is its own reward: Load and performance related ventral striatum activation to correct responses during a working memory task in youth. NeuroImage 61(3): 723-9, Jul 2012.
13. Zhang T, Satterthwaite TD, Elliott M, Gur RC, Gur RE, Davatzikos C: Multivariate fMRI analysis using optimally-discriminative voxel-based analysis. International Workshop on Pattern Recognition in NeuroImaging Page: 33-36, Jul 2012.
14. Satterthwaite TD, Elliott MA, Gerraty RT, Ruparel K, Loughead J, Calkins ME, Eickhoff SB, Hakonarson H, Gur RC, Gur RE, Wolf DH: An improved framework for confound regression and filtering for control of motion artifact in the preprocessing of resting-state functional connectivity data. NeuroImage 64: 240-56, Jan 2013.
15. Zhang T, Satterthwaite TD, Davatzikos C: ODVBA-C: Optimally-discriminative voxel-based analysis of continuous variables. International Workshop on Pattern Recognition in NeuroImaging Page: 161-164, Jun 2013.
16. Wolf DH, Pinkham AE, Satterthwaite TD, Ruparel K, Elliott M, Valdez J, Smith MA, Detre JA, Gur RC, Gur RE: Oral alprazolam acutely increases nucleus accumbens perfusion. Molecular Psychiatry 18(9): 960-961, Sep 2013 Notes: doi: 10.1038/mp.2012.139.
17. Gur RE, Kaltman D, Melhem ER, Ruparel K, Prabhakaran K, Riley M, Yodh E, Hakonarson H, Satterthwaite TD, Gur RC: Incidental findings in youths volunteering for brain MRI research. American Journal of Neuroradiology 34(10): 2021-25, Oct 2013.
18. Satterthwaite TD, Wolf DH, Erus G, Ruparel K, Elliott MA, Gennatas ED, Hopson R, Jackson C, Prabhakaran K, Bilker WB, Calkins ME, Loughead J, Smith A, Roalf DR, Hakonarson H, Verma R, Davatzikos C, Gur RC, Gur RE: Functional maturation of the executive system during adolescence. The Journal of Neuroscience: The Official Journal of the Society for Neuroscience 33(41): 16249-61, Oct 2013.
19. Eavani H, Satterthwaite TD, Gur RE, Gur RC, Davatzikos C: Unsupervised learning of functional network dynamics in resting state fMRI. Information Processing in Medical Imaging 23: 426-37, 2013.
20. Eavani H, Satterthwaite TD, Gur RE, Gur RC, Davatzikos C: Identifying patterns in temporal variation of functional connectivity using resting state fMRI. IEEE International Symposium on Biomedical Imaging Page: 1086-89, Dec 2013.



21. Honnorat N, Eavani H, Satterthwaite TD, Davatzikos C: A graph-based brain parcellation method extracting sparse networks. IEEE International Workshop on Pattern Recognition in Neuroimaging Page: 157-160, 2013.
22. Satterthwaite TD, Wolf DH, Ruparel K, Erus G, Elliott MA, Eickhoff SB, Gennatas ED, Jackson C, Prabhakaran K, Smith A, Hakonarson H, Verma R, Davatzikos C, Gur RE, Gur RC: Heterogeneous impact of motion on fundamental patterns of developmental changes in functional connectivity during youth. NeuroImage 83: 45-57, Dec 2013 Notes: doi: 10.1016/j.neuroimage.2013.06.045.
23. Ingalhalikar M, Smith A, Parker D, Satterthwaite TD, Elliott MA, Ruparel K, Hakonarson H, Gur RE, Gur RC, Verma R: Sex differences in the structural connectome of the human brain. Proceedings of the National Academy of Sciences of the United States of America 111(2): 823-8, Jan 2014.
24. Satterthwaite TD, Elliott MA, Ruparel K, Loughhead J, Prabhakaran K, Calkins ME, Hopson R, Jackson C, Keefe J, Riley M, Mentch FD, Sleiman P, Verma R, Davatzikos C, Hakonarson H, Gur RC, Gur RE: Neuroimaging of the Philadelphia neurodevelopmental cohort. NeuroImage 86: 544-53, Feb 2014.
25. Satterthwaite TD, Vandekar S, Wolf DH, Ruparel K, Roalf DR, Jackson C, Elliott MA, Bilker WB, Calkins ME, Prabhakaran K, Davatzikos C, Hakonarson H, Gur RE, Gur RC: Sex differences in the effect of puberty on hippocampal morphology. Journal of the American Academy of Child and Adolescent Psychiatry 53(3): 341-350.e1, March 2014 Notes: doi: 10.1016/j.jaac.2013.12.002.
26. Gur RC, Calkins ME, Satterthwaite TD, Ruparel K, Bilker WB, Moore TM, Savitt AP, Hakonarson H, Gur RE: Neurocognitive growth charting in psychosis spectrum youths. JAMA Psychiatry 71(4): 366-74, Apr 2014.
27. Satterthwaite TD, Shinohara RT, Wolf DH, Hopson RD, Elliott MA, Vandekar SN, Ruparel K, Calkins ME, Roalf DR, Gennatas ED, Jackson C, Erus G, Prabhakaran K, Davatzikos C, Detre JA, Hakonarson H, Gur RC, Gur RE: Impact of puberty on the evolution of cerebral perfusion during adolescence. Proceedings of the National Academy of Sciences of the United States of America 111(23): 8643-8, Jun 2014.
28. Thompson PM, Stein JL, Medland SE, Hibar DP, Vasquez AA, Renteria ME, Toro R, Jahanshad N, Schumann G, Franke B, Wright MJ, Martin NG, Agartz I, Alda M, Alhusaini S, Almasy L, Almeida J, Alpert K, Andreasen NC, Andreassen OA, Apostolova LG, Appel K, Armstrong NJ, Aribisala B, Bastin ME, Bauer M, Bearden CE, Bergmann O, Binder EB, Blangero J, Bockholt HJ, Bøen E, Bois C, Boomsma DI, Booth T, Bowman IJ, Bralten J, Brouwer RM, Brunner HG, Brohawn DG, Buckner RL, Buitelaar J, Bulayeva K, Bustillo JR, Calhoun VD,

Cannon DM, Cantor RM, Carless MA, Caseras X, Cavalleri GL, Chakravarty MM, Chang KD, Ching CR, Christoforou A, Cichon S, Clark VP, Conrod P, Coppola G, Crespo-Facorro B, Curran JE, Czisch M, Deary IJ, de Geus EJ, den Braber A, Delvecchio G, Depondt C, de Haan L, de Zubicaray GI, Dima D, Dimitrova R, Djurovic S, Dong H, Donohoe G, Duggirala R, Dyer TD, Ehrlich S, Ekman CJ, Elvsåshagen T, Emsell L, Erk S, Espeseth T, Fagerness J, Fears S, Fedko I, Fernández G, Fisher SE, Foroud T, Fox PT, Francks C, Frangou S, Frey EM, Frodl T, Frouin V, Garavan H, Giddaluru S, Glahn DC, Godlewska B, Goldstein RZ, Gollub RL, Grabe HJ, Grimm O, Gruber O, Guadalupe T, Gur RE, Gur RC, Göring HH, Hagenaars S, Hajek T, Hall GB, Hall J, Hardy J, Hartman CA, Hass J, Hatton SN, Haukvik UK, Hegenscheid K, Heinz A, Hickie IB, Ho BC, Hoehn D, Hoekstra PJ, Hollinshead M, Holmes AJ, Homuth G, Hoogman M, Hong LE, Hosten N, Hottenga JJ, Hulshoff Pol HE, Hwang KS, Jack CR, Jenkinson M, Johnston C, Jönsson EG, Kahn RS, Kasperaviciute D, Kelly S, Kim S, Kochunov P, Koenders L, Krämer B, Kwok JB, Lagopoulos J, Laje G, Landen M, Landman BA, Lauriello J, Lawrie SM, Lee PH, Le Hellard S, Lemaître H, Leonardo CD, Li CS, Liberg B, Liewald DC, Liu X, Lopez LM, Loth E, Lourdasamy A, Luciano M, Macciardi F, Machielsen MW, Macqueen GM, Malt UF, Mandl R, Manoach DS, Martinot JL, Matarin M, Mather KA, Mattheisen M, Mattingsdal M, Meyer-Lindenberg A, McDonald C, McIntosh AM, McMahon FJ, McMahon KL, Meisenzahl E, Melle I, Milaneschi Y, Mohnke S, Montgomery GW, Morris DW, Moses EK, Mueller BA, Muñoz Maniega S, Mühleisen TW, Müller-Myhsok B, Mwangi B, Nauck M, Nho K, Nichols TE, Nilsson LG, Nugent AC, Nyberg L, Olvera RL, Oosterlaan J, Ophoff RA, Pandolfo M, Papalampropoulou-Tsiridou M, Pappmeyer M, Paus T, Pausova Z, Pearlson GD, Penninx BW, Peterson CP, Pfennig A, Phillips M, Pike GB, Poline JB, Potkin SG, Pütz B, Ramasamy A, Rasmussen J, Rietschel M, Rijpkema M, Risacher SL, Roffman JL, Roiz-Santiañez R, Romanczuk-Seiferth N, Rose EJ, Royle NA, Rujescu D, Ryten M, Sachdev PS, Salami A, Satterthwaite TD, Savitz J, Saykin AJ, Scanlon C, Schmaal L, Schnack HG, Schork AJ, Schulz SC, Schür R, Seidman L, Shen L, Shoemaker JM, Simmons A, Sisodiya SM, Smith C, Smoller JW, Soares JC, Sponheim SR, Sprooten E, Starr JM, Steen VM, Strakowski S, Strike L, Sussmann J, Sämann PG, Teumer A, Toga AW, Tordesillas-Gutierrez D, Trabzuni D, Trost S, Turner J, Van den Heuvel M, van der Wee NJ, van Eijk K, van Erp TG, van Haren NE, van 't Ent D, van Tol MJ, Valdés Hernández MC, Veltman DJ, Versace A, Völzke H, Walker R, Walter H, Wang L, Wardlaw JM, Weale ME, Weiner MW, Wen W, Westlye LT, Whalley HC, Whelan CD, White T, Winkler AM, Wittfeld K, Woldehawariat G, Wolf C, Zilles D, Zwiers MP, Thalamuthu A, Schofield PR, Freimer NB, Lawrence NS, Drevets W, and the Alzheimer's Disease Neuroimaging Initiative, EPIGEN Consortium, IMAGEN Consortium, Saguenay Youth Study (SYS) Group: The ENIGMA consortium: Large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior 8(2): 153-82, Jun 2014.

29. Roalf DR, Gur RE, Ruparel K, Calkins ME, Satterthwaite TD, Bilker WB, Hakonarson H, Harris LJ, Gur RC: Within-individual variability in

- neurocognitive performance: Age- and sex-related differences in children and youths from ages 8 to 21. Neuropsychology 28(4): 506-18, Jul 2014.
30. Eavani H, Satterthwaite TD, Gur RE, Gur RC, Davatzikos C: Discriminative sparse connectivity patterns for classification of fMRI Data. Medical Image Computing and Computer-Assisted Intervention 17(Pt 3): 193-200, Sep 2014.
31. Calkins ME, Moore TM, Merikangas KR, Burstein M, Satterthwaite TD, Bilker WB, Ruparel K, Chiavacci R, Wolf DH, Mentch F, Qiu H, Connolly JJ, Sleiman PA, Hakonarson H, Gur RC, Gur RE: The psychosis spectrum in a young U.S. community sample: Findings from the Philadelphia neurodevelopmental cohort. World Psychiatry: Official Journal of the World Psychiatric Association (WPA) 13(3): 296-305, Oct 2014.
32. Wolf DH, Satterthwaite TD, Kantrowitz-Sirotkin JJ, Katchmar N, Vandekar L, Elliott MA, Ruparel K: Amotivation in schizophrenia: Integrated assessment with behavioral, clinical, and imaging measures. Schizophrenia Bulletin 40(6): 1328-37, Nov 2014.
33. Eavani H, Satterthwaite TD, Filipovych R, Gur RE, Gur RC, Davatzikos C: Identifying sparse connectivity patterns in the brain using resting-state fMRI. NeuroImage 105: 286-99, Jan 2015.
34. Roalf DR, Vandekar S, Almasy L, Ruparel K, Satterthwaite TD, Elliott MA, Podell JE, Gallagher SR, Jackson CT, Prasad K, Wood J, Pogue-Geile MF, Nimgaonkar VL, Gur RC, Gur RE: Heritability of subcortical and limbic brain volume and shape in multiplex-multigenerational families with schizophrenia. Biological Psychiatry 77(2): 137-46, Jan 2015.
35. Vandekar SN, Shinohara RT, Raznahan A, Roalf DR, Ross M, DeLeo N, Ruparel K, Verma R, Wolf DH, Gur RC, Gur RE, Satterthwaite TD: Topologically dissociable patterns of development of the human cerebral cortex. The Journal of Neuroscience 35(2): 599-609, Jan 2015.
36. Honnorat N, Eavani H, Satterthwaite TD, Gur RE, Gur RC, Davatzikos C: GraSP: Geodesic graph-based segmentation with shape priors for the functional parcellation of the cortex. NeuroImage 106: 207-21, Feb 2015.
37. Wolf DH, Satterthwaite TD, Calkins ME, Ruparel K, Elliott M, Hopson R, Jackson C, Prabhakaran K, Bilker W, Hakonarson H, Gur RC, Gur RE: Functional neuroimaging abnormalities in youth with psychosis spectrum symptoms. JAMA Psychiatry 72(5): 456-65, May 2015.
38. Erus G, Battapady H, Satterthwaite TD, Hakonarson H, Gur RE, Davatzikos C, Gur RC: Imaging patterns of brain development and their relationship to cognition. Cerebral Cortex 25(6): 1676-84, Jun 2015.

39. Schmitt EJ, Vandekar S, Yi J, Calkins ME, Ruparel K, Roalf DR, Whinna D, Souders MC, Satterthwaite TD, Prabhakaran K, McDonald-McGinn DM, Zackai EH, Gur RC, Emanuel BS, Gur RE: Aberrant cortical morphometry in the 22q11.2 deletion syndrome. Biological Psychiatry 78(2): 135-43, Jul 2015.
40. Satterthwaite TD, Kable JW, Vandekar L, Katchmar N, Bassett DS, Baldassano CF, Ruparel K, Elliott MA, Sheline YI, Gur RC, Gur RE, Davatzikos C, Leibenluft E, Thase ME, Wolf DH: Common and dissociable dysfunction of the reward system in bipolar and unipolar depression. Neuropsychopharmacology 40(9): 2258-68, Aug 2015.
41. Yerys BE, Gordon EM, Abrams DN, Satterthwaite TD, Weinblatt R, Jankowski KF, Strang J, Kenworthy L, Gaillard WD, Vaidya CJ: Default mode network segregation and social deficits in autism spectrum disorder: Evidence from non-medicated children. NeuroImage: Clinical 9: 223-32, Aug 2015.
42. Satterthwaite TD, Wolf DH, Roalf DR, Ruparel K, Erus G, Vandekar S, Gennatas ED, Elliott MA, Smith A, Hakonarson H, Verma R, Davatzikos C, Gur RE, Gur RC: Linked sex differences in cognition and functional connectivity in youth. Cerebral Cortex 25(9): 2383-94, Sep 2015 Notes: doi: 10.1093/cercor/bhu036.
43. Gu S, Satterthwaite TD, Medaglia JD, Yang M, Gur RE, Gur RC, Bassett DS: Emergence of system roles in normative neurodevelopment. Proceedings of the National Academy of Sciences of the United States of America 112(44): 13681-6, Nov 2015.
44. Calkins ME, Merikangas KR, Moore TM, Burstein M, Behr MA, Satterthwaite TD, Ruparel K, Wolf DH, Roalf DR, Mentch FD, Qiu H, Chiavacci R, Connolly JJ, Sleiman PM, Gur RC, Hakonarson H, Gur RE: The Philadelphia neurodevelopmental cohort: Constructing a deep phenotyping collaborative. Journal of Child Psychology and Psychiatry 56(12): 1356-69, Dec 2015.
45. Sato JR, Biazoli CE, Salum GA, Gadelha A, Crossley N, Satterthwaite TD, Vieira G, Zugman A, Picon FA, Pan PM, Hoexter MQ, Anés M, Moura LM, Del'aquilla MA, Amaro E, McGuire P, Lacerda AL, Rohde LA, Miguel EC, Jackowski AP, Bressan RA: Temporal stability of network centrality in control and default mode networks: Specific associations with externalizing psychopathology in children and adolescents. Human Brain Mapping 36(12): 4926-37, Dec 2015.
46. Satterthwaite TD, Vandekar SN, Wolf DH, Bassett DS, Ruparel K, Shehzad SZ, Craddock CR, Shinohara RT, Moore TM, Gennatas ED, Jackson C, Roalf DR, Milham MP, Calkins ME, Hakonarson H, Gur RC, Gur RE: Connectome-wide network analysis of youth with psychosis-spectrum symptoms. Molecular Psychiatry 20(12): 1508-15, Dec 2015 Notes: doi: 10.1038/mp.2015.66.

47. Roalf DR, Quarmley M, Elliott MA, Satterthwaite TD, Vandekar SN, Ruparel K, Gennatas ED, Calkins ME, Moore TM, Hopson R, Prabhakaran K, Jackson CT, Verma R, Hakonarson H, Gur RC, Gur RE: The impact of quality assurance assessment on diffusion tensor imaging outcomes in a large-scale population-based cohort. NeuroImage 125: 903-919, Jan 2016.
48. Satterthwaite TD, Connolly JJ, Ruparel K, Calkins ME, Jackson C, Elliott MA, Roalf DR, Hopson R, Prabhakaran K, Behr M, Qiu H, Mentch FD, Chiavacci R, Sleiman PM, Gur RC, Hakonarson H, Gur RE: The Philadelphia neurodevelopmental cohort: A publicly available resource for the study of normal and abnormal brain development in youth. NeuroImage 1(124 (Pt. B)): 1115-9, Jan 2016.
49. Doshi J, Erus G, Ou Y, Resnick SM, Gur RC, Gur RE, Satterthwaite TD, Furth S, Davatzikos C: MUSE: MUlti-atlas region segmentation utilizing ensembles of registration algorithms and parameters, and locally optimal atlas selection. NeuroImage 127: 186-95, Feb 2016.
50. Tunc B, Solmaz B, Parker DS, Satterthwaite TD, Elliot MA, Calkins ME, Ruparel K, Gur RE, Gur RC, Verma R: Establishing a link between sex-related differences in the structural connectome and behaviour. Philosophical Transactions of the Royal Society of London, Series B, Biological sciences 371(1688): 20150111, Feb 2016 Notes: doi: 10.1098/rstb.2015.0111.
51. van Erp TG, Hibar DP, Rasmussen JM, Glahn DC, Pearlson GD, Andreassen OA, Agartz I, Westlye LT, Haukvik UK, Dale AM, Melle I, Hartberg CB, Gruber O, Kraemer B, Zilles D, Donohoe G, Kelly S, McDonald C, Morris DW, Cannon DM, Corvin A, Machielsen MW, Koenders L, de Haan L, Veltman DJ, Satterthwaite TD, Wolf DH, Gur RC, Gur RE, Potkin SG, Mathalon DH, Mueller BA, Preda A, Macciardi F, Ehrlich S, Walton E, Hass J, Calhoun VD, Bockholt HJ, Sponheim SR, Shoemaker JM, van Haren NE, Hulshoff Pol HE, Pol HE, Ophoff RA, Kahn RS, Roiz-Santiañez R, Crespo-Facorro B, Wang L, Alpert KI, Jönsson EG, Dimitrova R, Bois C, Whalley HC, McIntosh AM, Lawrie SM, Hashimoto R, Thompson PM, and Turner JA: Subcortical brain volume abnormalities in 2028 individuals with schizophrenia and 2540 healthy controls via the ENIGMA consortium. Molecular Psychiatry 21(4): 547-53, Apr 2016 Notes: doi: 10.1038/mp.2015.63.
52. Hershenberg R\*, Satterthwaite TD\*, Daldal A, Katchmar N, Moore TM, Kable JW, Wolf DH: Diminished effort on a progressive ratio task in both unipolar and bipolar depression. Journal of Affective Disorders 196: 97-100, May 2016 Notes: Shared first authorship.
53. Linn KA, Gaonkar B, Satterthwaite TD, Doshi J, Davatzikos C, Shinohara RT: Control-group feature normalization for multivariate pattern analysis of structural MRI data using the support vector machine. NeuroImage 132: 157-66, May 2016.

54. Satterthwaite TD, Wolf DH, Calkins ME, Vandekar SN, Erus G, Ruparel K, Roalf DR, Linn KA, Elliott MA, Moore TM, Hakonarson H, Shinohara RT, Davatzikos C, Gur RC, Gur RE: Structural brain abnormalities in youth with psychosis spectrum symptoms. JAMA Psychiatry 73(5): 515-24, May 2016.
55. Shanmugan S, Wolf DH, Calkins ME, Moore TM, Ruparel K, Hopson RD, Vandekar SN, Roalf DR, Elliott MA, Jackson C, Gennatas ED, Leibenluft E, Pine DS, Shinohara RT, Hakonarson H, Gur RC, Gur RE, Satterthwaite TD: Common and dissociable mechanisms of executive system dysfunction across psychiatric disorders in youth. The American Journal of Psychiatry 173(5): 517-26, May 2016.
56. Vandekar SN, Shinohara RT, Raznahan A, Hopson RD, Roalf DR, Ruparel K, Gur RC, Gur RE, Satterthwaite TD: Subject-level measurement of local cortical coupling. NeuroImage 133: 88-97, Jun 2016.
57. Satterthwaite TD, Cook PA, Bruce SE, Conway C, Mikkelsen ME, Satchell E, Vandekar SN, Durbin T, Shinohara RT, Sheline YI: Dimensional depression severity in women with major depression and post-traumatic stress disorder correlates with fronto-amygdalar hypoconnectivity. Molecular Psychiatry 21(7): 894-902, Jul 2016.
58. Schmitt EJ, Yi JH, Calkins ME, Ruparel K, Roalf DR, Cassidy A, Souders MC, Satterthwaite TD, McDonald-McGinn DM, Zackai EH, Gur RC, Emanuel BS, Gur RE: Disrupted anatomic networks in the 22q11.2 deletion syndrome. NeuroImage: Clinical 12: 420-8, Aug 2016.
59. Sharma A\*, Satterthwaite TD\*, Vandekar L, Katchmar N, Daldal A, Ruparel K, Elliott MA, Baldassano C, Thase ME, Gur RE, Kable JW, Wolf DH: Divergent relationship of depression severity to social reward responses among patients with bipolar versus unipolar depression. Psychiatry Research: Neuroimaging 254: 18-25, Aug 2016 Notes: Shared first authorship.
60. Kaczkurkin AN, Moore TM, Ruparel K, Ciric R, Calkins ME, Shinohara RT, Elliott MA, Hopson R, Roalf DR, Vandekar SN, Gennatas ED, Wolf DH, Cobb SJ, Pine S, Leibenluft E, Detre JA, Foa EB, Gur RE, Gur RC, Satterthwaite TD: Elevated amygdala perfusion mediates developmental sex differences in trait anxiety. Biological Psychiatry 80(10): 775-85, Nov 2016.
61. Hibar DP, Westlye LT, van Erp TG, Rasmussen J, Leonardo CD, Faskowitz J, Haukvik UK, Hartberg CB, Doan NT, Agartz I, Dale AM, Gruber O, Krämer B, Trost S, Liberg B, Abé C, Ekman CJ, Ingvar M, Landén M, Fears SC, Freimer NB, Bearden CE, Sprooten E, Glahn DC, Pearlson GD, Emsell L, Kenney J, Scanlon C, McDonald C, Cannon DM, Almeida J, Versace A, Caseras X, Lawrence NS, Phillips ML, Dima D, Delvecchio G, Frangou S, Satterthwaite TD,

- Wolf D, Houenou J, Henry C, Malt UF, Bøen E, Elvsåshagen T, Young AH, Lloyd AJ, Goodwin GM, Mackay CE, Bourne C, Bilderbeck A, Abramovic L, Boks MP, van Haren NE, Ophoff RA, Kahn RS, Bauer M, Pfennig A, Alda M, Hajek T, Mwangi B, Soares JC, Nickson T, Dimitrova R, Sussmann JE, Hagenaars S, Whalley HC, McIntosh AM, Thompson PM, and Andreassen OA: Subcortical volumetric abnormalities in bipolar disorder. Molecular Psychiatry 21(12): 1710-16, Dec 2016.
62. Li H, Satterthwaite TD, Fan Y: Identification of subject-specific brain functional networks using a collaborative sparse nonnegative matrix decomposition method. IEEE International Symposium on Biomedical Imaging Page: 984-987, 2016.
63. Moore TM, Reise SP, Roalf DR, Satterthwaite TD, Davatzikos C, Bilker WB, Port AM, Jackson CT, Ruparel K, Savitt AP, Baron RB, Gur RE, Gur RC: Development of an itemwise efficiency scoring method: concurrent, convergent, discriminant, and neuroimaging-based predictive validity assessed in a large community sample. Psychological Assessment 28(12): 1529-42, Dec 2016.
64. Calkins ME, Moore TM, Satterthwaite TD, Wolf DH, Turetsky BI, Merikangas KR, Ruparel K, Kohler CG, Gur RC, Gur RE: Persistence of psychosis spectrum symptoms in the Philadelphia neurodevelopmental cohort: A prospective two-year follow-up. World Psychiatry 16(1): 62-76, Jan 2017.
65. Shou H, Yang Z, Satterthwaite TD, Cook P, Bruce S, Shinohara RT, Sheline YI: Cognitive behavioral therapy increases amygdala connectivity with the cognitive control network in both MDD and PTSD. NeuroImage: Clinical 14: 464-70, Jan 2017.
66. Chai L, Khambhati A, Ciric R, Moore TM, Gur RC, Gur RE, Satterthwaite TD, Bassett DS: Evolution of brain network dynamics in neurodevelopment. Network Neuroscience 1(1): 14-30, Feb 2017 Notes: doi: 10.1162/NETN\_a\_00001.
67. Honnort N, Satterthwaite TD, Gur RE, Gur RC, Davatzikos C: sGraSP: A graph-based method for the derivation of subject-specific functional parcellations of the brain. Journal of Neuroscience Methods 277(1): 1-20, Feb 2017.
68. Betzel RF, Satterthwaite TD, Gold JI, Bassett DS: Positive affect, surprise, and fatigue are correlates of network flexibility. Scientific Reports 7(1): 520, Mar 2017 Notes: doi: 10.1038/s41598-017-00425-z.
69. Sotiras A, Toledo JB, Gur RE, Gur RC, Satterthwaite TD\*, Davatzikos C\*: Patterns of coordinated cortical remodeling during adolescence and their associations with functional specialization and evolutionary expansion. Proceedings of the National Academy of Sciences 114(13): 3527-32, Mar 2017 Notes: Shared last authorship.
70. Walton E, Hibar DP, van Erp TG, Potkin SG, Roiz-Santiañez R, Crespo-Facorro B,

Suarez-Pinilla P, Van Haren NE, de Zwarte SM, Kahn RS, Cahn W, Doan NT, Jørgensen KN, Gurholt TP, Agartz I, Andreassen OA, Westlye LT, Melle I, Berg AO, Mørch-Johnsen L, Faerden A, Flyckt L, Fatouros-Bergman H, Jönsson EG, Hashimoto R, Yamamori H, Fukunaga M, Preda A, De Rossi P, Piras F, Banaj N, Ciullo V, Spalletta G, Gur RE, Gur RC, Wolf DH, Satterthwaite TD, Beard LM, Sommer IE, Koops S, Gruber O, Richter A, Krämer B, Kelly S, Donohoe G, McDonald C, Cannon DM, Corvin A, Gill M, Di Giorgio A, Bertolino A, Lawrie S, Nickson T, Whalley HC, Neilson E, Calhoun VD, Thompson PM, Turner JA, Ehrlich S: Positive symptoms associate with cortical thinning in the superior temporal gyrus via the ENIGMA Schizophrenia consortium. Acta Psychiatrica Scandinavica 135(5): 439-447, Mar 2017.

71. Betzel RF, Medaglia JD, Papadopolus L, Baum GL, Gur RC, Gur RE, Roalf D, Satterthwaite TD, Bassett DS: The modular organization of human anatomical brain networks: Accounting for the cost of wiring. Network Neuroscience 1(1): 42-68, Apr 2017.
72. Gennatas ED, Avants BB, Wolf DH, Satterthwaite TD, Ruparel K, Ciric RC, Hakonarson H, Gur RE, Gur RC: Age-related effects and sex differences in gray matter density, volume, mass, and cortical thickness from childhood to young adulthood. Journal of Neuroscience 37(20): 5065-73, May 2017.
73. Roalf DR, Quarmley M, Calkins ME, Satterthwaite TD, Ruparel K, Elliott MA, Moore TM, Gur RC, Gur RE, Moberg PJ, Turetsky BI: Temporal lobe volume decrements in psychosis spectrum youth. Schizophrenia Bulletin 43(3): 601-10, May 2017.
74. Baum GL, Ciric R, Roalf DR, Betzel RF, Moore TM, Shinohara RT, Kahn AE, Vandekar SN, Quarmley M, Cook PA, Elliott MA, Ruparel K, Gur RE, Gur RC, Bassett DS\*, Satterthwaite TD\*: Modular segregation of structural brain networks supports the development of executive function in youth. Current Biology 27(11): 1561-72, Jun 2017 Notes: Shared last authorship.
75. Yu LQ, Lee S, Katchmar N, Satterthwaite TD, Kable JW, Wolf DH: Steeper discounting of delayed rewards in schizophrenia but not first-degree relatives. Psychiatry Research 252: 303-9, Jun 2017.
76. Ciric R, Wolf DH, Power JD, Roalf DR, Baum GL, Ruparel K, Shinohara RT, Elliott MA, Eickhoff SB, Davatzikos C, Gur RC, Gur RE, Bassett DS, Satterthwaite TD: Benchmarking of participant-level confound regression strategies for the control of motion artifact in studies of functional connectivity. NeuroImage 154: 174-87, Jul 2017.
77. Sharma A, Wolf DH, Ciric R, Kable JW, Moore TM, Vandekar SN, Katchmar N, Daldal A, Ruparel K, Davatzikos C, Elliott MA, Calkins ME, Shinohara RT, Bassett DS, Satterthwaite TD: Common dimensional reward deficits across mood



- and psychotic disorders: A connectome-wide association study. The American Journal of Psychiatry 174(7): 657-66, Jul 2017.
78. Yerys BE, Herrington JD, Satterthwaite TD, Guy L, Schultz RT, Bassett DS: Globally weaker and topologically different: Resting-state connectivity in youth with autism. Molecular Autism 8: 39, July 2017.
79. Gu S, Yang M, Medaglia JD, Gur RC, Gur RE, Satterthwaite TD\*, Bassett DS\*: Functional hypergraph uncovers novel covariant structures over neurodevelopment. Human Brain Mapping 38(8): 3823-35, Aug 2017.
80. Li H, Satterthwaite TD, Fan Y: Large-scale sparse functional networks from resting state fMRI. NeuroImage 156(1): 1-13, Aug 2017.
81. Roalf DR, Schmitt JE, Vandekar SN, Satterthwaite TD, Shinohara RT, Ruparel K, Elliott MA, Prabhakaran K, McDonald-McGinn DM, Zackai EH, Gur RC, Emanuel BS, Gur RE: White matter microstructural deficits in 22q11.2 deletion syndrome. Psychiatry Research 268: 35-44, Oct 2017.
82. Shanmugan S, Satterthwaite TD, Sammel MD, Cao W, Ruparel K, Gur RC, Epperson CN, Loughhead J: Impact of early life adversity and tryptophan depletion on functional connectivity in menopausal women: A double-blind, placebo-controlled crossover study. Psychoneuroendocrinology 84: 197-205, Oct 2017.
83. Fortin JP, Parker D, Tunç B, Watanabe T, Elliott MA, Ruparel K, Roalf DR, Satterthwaite TD, Gur RC, Gur RE, Schultz RT, Verma R, Shinohara RT: Harmonization of multi-site diffusion tensor imaging data. NeuroImage 161: 149-70, Nov 2017.
84. Shanmugan S, Loughhead J, Cao W, Sammel MD, Satterthwaite TD, Ruparel K, Gur RC, Epperson CN: Impact of tryptophan depletion on executive system function during menopause is moderated by childhood adversity. Neuropsychopharmacology 42(12): 2398-406, Nov 2017.
85. Tang E, Giusti C, Baum GL, Gu Shi, Pollock E, Kahn AE, Roalf DR, Moore TM, Ruparel K, Gur RC, Gur RE, Satterthwaite TD\*, Bassett DS\*: Developmental increases in white matter network controllability support a growing diversity of brain dynamics. Nature Communications 8(1): 1252, Nov 2017.
86. White KK, Moore TM, Calkins ME, Wolf DH, Satterthwaite TD, Leibenluft E, Pine DS, Gur RC, Gur RE: An evaluation of the specificity of executive function impairment in developmental psychopathology. Journal of the American Academy of Child and Adolescent Psychiatry 56(11): 975-82, Nov 2017.
87. Walton E, Hibar DP, van Erp TGM, Potkin SG, Roiz-Santiañez R, Crespo-Facorro B,

Suarez-Pinilla P, van Haren NEM, de Zwarte SMC, Kahn RS, Cahn W, Doan NT, Jørgensen KN, Gurholt TP, Agartz I, Andreassen OA, Westlye LT, Melle I, Berg AO, Morch-Johnsen L, Færden A, Flyckt L, Fatouros-Bergman H, Karolinska Schizophrenia Project consortium (KaSP), Jönsson EG, Hashimoto R, Yamamori H, Fukunaga M, Jahanshad N, De Rossi P, Piras F, Banaj N, Spalletta G, Gur RE, Gur RC, Wolf DH, Satterthwaite TD, Beard LM, Sommer IE, Koops S, Gruber O, Richter A, Krämer B, Kelly S, Donohoe G, McDonald C, Cannon DM, Corvin A, Gill M, Di Giorgio A, Bertolino A, Lawrie S, Nickson T, Whalley HC, Neilson E, Calhoun VD, Thompson PM, Turner JA, Ehrlich S: Prefrontal cortical thinning links to negative symptoms in schizophrenia via the ENIGMA consortium. Psychological Medicine 48(1): 82-94, Jan 2018.

88. Medaglia JD, Satterthwaite TD, Kelkar A, Ciric R, Moore TM, Ruparel K, Gur RC, Gur RE, Bassett DS: Brain state expression and transitions are related to complex executive cognition in normative neurodevelopment. NeuroImage 166: 293-306, Feb 2018 Notes: doi: 10.1016/j.neuroimage.2017.10.048.
89. Pehlivanova M, Wolf DH, Sotiras A, Kaczkurkin A, Moore TM, Ciric R, Cook PA, de La Garza AG, Rosen A, Ruparel K, Sharma A, Shinohara RT, Roalf DR, Gur RC, Davatzikos C, Gur RE, Kable JW, Satterthwaite TD: Diminished cortical thickness is associated with impulsive choice in adolescence. Journal of Neuroscience 38(10): 2471-81, Feb 2018 Notes: doi: 10.1523/JNEUROSCI.2200-17.2018.
90. Hibar DP, Westlye LT, Doan NT, Jahanshad N, Cheung JW, Ching CRK, Versace A, Bilderbeck AC, Uhlmann A, Mwangi B, Krämer B, Overs B, Hartberg CB, Abé C, Dima D, Grotegerd D, Sprooten E, Bøen E, Jimenez E, Howells FM, Delvecchio G, Temmingh H, Starke J, Almeida JRC, Goikolea JM, Houenou J, Beard LM, Rauer L, Abramovic L, Bonnin M, Ponteduro MF, Keil M, Rive MM, Yao N, Yalin N, Najt P, Rosa PG, Redlich R, Trost S, Hagenaars S, Fears SC, Alonso-Lana S, van Erp TGM, Nickson T, Chaim-Avancini TM, Meier TB, Elvsåshagen T, Haukvik UK, Lee WH, Schene AH, Lloyd AJ, Young AH, Nugent A, Dale AM, Pfennig A, McIntosh AM, Lafer B, Baune BT, Ekman CJ, Zarate CA, Bearden CE, Henry C, Simhandl C, McDonald C, Bourne C, Stein DJ, Wolf DH, Cannon DM, Glahn DC, Veltman DJ, Pomarol-Clotet E, Vieta E, Canales-Rodriguez EJ, Nery FG, Duran FLS, Busatto GF, Roberts G, Pearson GD, Goodwin GM, Kugel H, Whalley HC, Ruhe HG, Soares JC, Fullerton JM, Rybakowski JK, Savitz J, Chaim KT, Fatjó-Vilas M, Soeiro-de-Souza MG, Boks MP, Zanetti MV, Otaduy MCG, Schaufelberger MS, Alda M, Ingvar M, Phillips ML, Kempton MJ, Bauer M, Landén M, Lawrence NS, van Haren NEM, Horn NR, Freimer NB, Gruber O, Schofield PR, Mitchell PB, Kahn RS, Lenroot R, Machado-Vieira R, Ophoff R A, Sarró S, Frangou S, Satterthwaite TD, Hajek T, Dannlowski U, Malt UF, Arolt V, Gattaz WF, Drevets WC, Caseras X, Agartz I, Thompson PM, Andreassen OA: Cortical abnormalities in bipolar disorder: An MRI analysis of 6503 individuals from the ENIGMA bipolar disorder working group. Molecular Psychiatry 23(4): 932-42, Apr 2018.

91. Nassar R\*, Kaczurkin AN\*, Xia CH, Sotiras A, Pehlivanova M, Moore TM, Garcia de la Garza A, Roalf DR, Rosen A, Lorch SA, Ruparel K, Shinohara RT, Davatzikos C, Gur RC, Gur RE, Satterthwaite TD: Gestational age is dimensionally associated with structural brain network abnormalities across development. Cerebral Cortex Apr 2018 Notes: DOI: 10.1093/cercor/bhy091. Shared first authorship.
92. Rosen AFG, Roalf DR, Ruparel K, Blake J, Seelaus K, Villa P, Ciric R, Cook PA, Davatzikos C, Elliott MA, Garcia de la Garza A, Gennatas ED, Quarmley M, Schmitt JE, Shinohara RT, Tisdall MD, Gur RE, Craddock RC, Gur RC, Satterthwaite TD: Quantitative assessment of structural image quality. NeuroImage 160: 407-18, Apr 2018.
93. Yang Z, Oathes DJ, Linn KA, Bruce SE, Satterthwaite TD, Cook PA, Satchell EK, Shou H, Sheline YI: Cognitive behavioral therapy is associated with enhanced cognitive control network activity in major depression and post-traumatic stress disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 3(4): 311-319, Apr 2018.
94. Kelly S, Jahanshad N, Zalesky A, Kochunov P, Agartz I, Alloza C, Andreassen OA, Arango C, Banaj N, Bouix S, Bousman CA, Brouwer RM, Bruggemann J, Bustillo J, Cahn W, Calhoun V, Cannon D, Carr V, Catts S, Chen J, Chen J-X, Chen X, Chiapponi C, Cho KK, Ciullo V, Corvin AS, Crespo-Facorro B, Croypley V, De Rossi P, Diaz-Caneja CM, Dickie EW, Ehrlich S, Fan F-M, Faskowitz J, Fatouros-Bergman H, Flyckt L, Ford JM, Fouche J-P, Fukunaga M, Gill M, Glahn DC, Gollub R, Goudzwaard ED, Guo H, Gur RE, Gur RC, Gurholt TP, Hashimoto R, Hatton SN, Henskens FA, Hibar DP, Hickie IB, Hong LE, Horacek J, Howells FM, Hulshoff Pol HE, Hyde CL, Isaev D, Jablensky A, Jansen PR, Janssen J, Jönsson EG, Jung LA, Kahn RS, Kikinis Z, Liu K, Klauser P, Knöchel C, Kubicki M, Lagopoulos J, Langen C, Lawrie S, Lenroot RK, Lim KO, Lopez-Jaramillo C, Lyall A, Magnotta V, Mandl RCW, Mathalon DH, McCarley RW, McCarthy-Jones S, McDonald C, McEwen S, McIntosh A, Melicher T, Meshulam-Gately RI, Michie PT, Mowry B, Mueller BA, Newell DT, O'Donnell P, Oertel-Knöchel V, Oestreich L, Paciga SA, Pantelis C, Pasternak O, Pearlson G, Pellicano GR, Pereira A, Pineda Zapata J, Piras F, Potkin SG, Preda A, Rasser PE, Roalf DR, Roiz R, Roos A, Rotenberg D, Satterthwaite TD, Savadjiev P, Schall U, Scott RJ, Seal ML, Seidman LJ, Shannon Weickert C, Whelan CD, Shenton ME, Kwon JS, Spalletta G, Spaniel F, Sprooten E, Stäblein M, Stein DJ, Sundram S, Tan Y, Tan S, Tang S, Temmingh HS, Westlye LT, Tønnesen S, Tordesillas-Gutierrez D, Doan NT, Vaidya J, van Haren NEM, Vargas CD, Vecchio D, Velakoulis D, Voineskos A, Voyvodic JQ, Wang Z, Wan P, Wei D, Weickert TW, Whalley H, White T, Whitford TJ, Wojcik JD, Xiang H, Xie Z, Yamamori H, Yang F, Yao N, Zhang G, Zhao J, van Erp TGM, Turner J, Thompson PM, Donohoe G: Widespread white matter microstructural differences in schizophrenia across 4322 individuals: Results from the ENIGMA

- schizophrenia DTI working group. Molecular Psychiatry 23(5): 1261-69, May 2018.
95. Li H, Satterthwaite TD, Fan Y: Brain age prediction based on resting-state functional connectivity patterns using convolutional neural networks. IEEE International Symposium on Biomedical Imaging May 2018 Notes: 10.1109/ISBI.2018.8363532.
96. Reddy PG, Mattar MG, Murphy AC, Wymbs NF, Grafton ST, Satterthwaite TD, Bassett DS: Brain state flexibility accompanies motor-skill acquisition. NeuroImage 171: 135-47, May 2018.
97. Baum GL, Roalf DR, Cook PA, Ciric R, Rosen AFG; Xia CH, Elliott MA, Ruparel K, Verma R, Tunc B, Gur RC, Gur RE, Bassett DS, Satterthwaite TD: The impact of in-scanner head motion on structural connectivity derived from diffusion MRI. NeuroImage 173: 275-86, Jun 2018.
98. Reardon PK, Seidlitz J, Vandekar SN, Liu S, Patel R, Park MTM, Alexander-Bloch A, Clasen LS, Blumenthal JD, Giedd JN, Gur RC, Gur RE, Lerch JP, Chakravarty MM, Satterthwaite TD, Shinohara RT, Raznahan A: Normative brain size variation and brain shape diversity in humans. Science 360(6394): 1222-1227, Jun 2018.
99. Kernbach J, Satterthwaite TD, Bassett DS, Smallwood J, Margulies D, Krall S, Shaw P, Varoquaux G, Thirion B, Konrad K, Bzdok D: Shared endophenotypes of default mode dysfunction in attention deficit/hyperactivity disorder and autism spectrum disorder. Translational Psychiatry 8(1): 133, July 2018.
100. Valcarcel AM, Linn KA, Vandekar SN, Satterthwaite TD, Muschelli J, Calabresi PA, Pham DL, Martin ML, Shinohara RT: MIMoSA: An automated method for intermodal segmentation analysis of multiple sclerosis brain lesions. Journal of Neuroimaging 28(4): 389-398, Jul 2018.
101. Ma Q, Zhang T, Zanetti M, Shen H, Satterthwaite TD, Wolf DH, Gur RE, Fan Y, Hu D, Busatto GF, Christos D: Classification of multi-site MR Images in the presence of heterogeneity using multi-task learning. NeuroImage: Clinical 19: 476-86, Aug 2018.
102. Rozycki M\*, Satterthwaite TD\*, Koutsouleris N, Erus G, Doshi J, Wolf DH, Fan Y, Gur RE, Gur RC, Meisenzahl EM, Zhuo C, Ying H, Yan H, Yue W, Zhang D, Davatzikos C: Multisite machine learning analysis provides a robust structural imaging signature of schizophrenia detectable across diverse patient populations and within individuals. Schizophrenia Bulletin 44(5): 1035-1044, Aug 2018 Notes: doi: 10.1093/schbul/sbx137.
103. Xia CH, Ma Z, Ciric R, Gu S, Betzel RF, Kaczkurkin AN, Calkins ME, Cook PE,

Garcia de la Garza A, Vandekar S, Cui Z, Moore TM, Roalf DR, Ruparel K, Wolf DH, Davatzikos C, Gur RC, Gur RE, Shinohara RT, Bassett DS, Satterthwaite TD: Linked dimensions of psychopathology and connectivity in functional brain networks. Nature Communications 9(1): 3003, Aug 2018 Notes: doi: 10.1038/s41467-018-05317-y.

104. Alexander-Bloch AF, Shou H, Liu S, Satterthwaite TD, Glahn DC, Shinohara RT, Vandekar SN, Raznahan A: On testing for spatial correspondence between maps of human brain structure and function. NeuroImage 178: 540-551, Sep 2018.
105. Eryilmaz H, Dowling KF, Huntington FC, Rodriguez-Thompson A, Soare TW, Beard LM, Lee H, Blossom JC, Gollub RL, Susser E, Gur RC, Calkins ME, Gur RE, Satterthwaite TD, Roffman JL: Association of prenatal exposure to population-wide folic acid fortification with altered cerebral cortex maturation in youth. JAMA Psychiatry 75(9): 918-928, Sep 2018.
106. Barzilay R, White LK, Calkins ME, Moore TM, Young JF, Wolf DH, Satterthwaite TD, Gur RC, Gur RE: Sex-specific association between high traumatic stress exposure and social cognitive functioning in youth. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 3(10): 860-867, Oct 2018.
107. Kaczkurkin AN, Moore TM, Calkins ME, Ciric R, Detre JA, Elliott MA, Foa EB, Garcia de la Garza A, Roalf DR, Rosen A, Ruparel K, Shinohara RT, Xia CH, Wolf DH, Gur RE, Gur RC, Satterthwaite TD: Common and dissociable regional cerebral blood flow differences associate with dimensions of psychopathology across categorical diagnoses. Molecular Psychiatry 23(10): 1981-1989, Oct 2018.
108. Loeffler L, Radke S, Habel U, Ciric R, Satterthwaite TD, Schneider F, Derntl B: The regulation of positive and negative emotions through instructed causal attributions in lifetime depression - a functional magnetic resonance imaging study. NeuroImage: Clinical 20: 1233-1245, Oct 2018.
109. Valcarcel A, Linn KA, Khalid F, Vandekar SN, Tauhid S, Satterthwaite TD, Muschelli J, Martin M, Bakshi R, Shinohara RT: A dual modeling approach to automatic segmentation of cerebral T2 hyperintensities and T1 black holes in multiple sclerosis. Neuroimage: Clinical 20: 1211-122, Oct 2018.
110. Vandekar SN, Satterthwaite TD, Rosen A, Ciric R, Roalf DR, Ruparel K, Gur RC, Gur RE, Shinohara RT: Faster family-wise error control for neuroimaging with a parametric bootstrap. Biostatistics 19(4): 497-513, Oct 2018 Notes: doi: 10.1093/biostatistics/kxx051.
111. Eavani H, Habes M, Satterthwaite TD, An Y, Hsieh MK, Honnorat N, Erus G, Doshi J, Ferrucci L, Beason-Held LL, Resnick SM, Davatzikos C: Heterogeneity of structural and functional imaging patterns of advanced brain aging revealed via machine learning methods. Neurobiology of Aging 71: 41-50, Nov 2018.

112. Ciric R, Rosen AFG, Erus G, Cook PA, Bassett DS, Davatzikos C, Wolf DH, Satterthwaite TD: Mitigating head motion artefact in functional connectivity MRI. Nature Protocols 13(12): 2801-2826, Dec 2018.
113. Yang Z, Gu S, Honnorat N, Linn K, Shinohara RT, Aselcioglu, Bruce S, Oathes DJ, Satterthwaite TD, Bassett DS, Sheline YI: Network changes associated with transdiagnostic depressive symptom improvement following cognitive behavioral therapy in MDD and PTSD. Molecular Psychiatry 23(12): 2314-2323, Dec 2018.
114. Barzilay R, Calkins ME, Moore ME, Wolf DH, Satterthwaite TD, Scott JC, Jones JD, Benton TD, Gur RC, Gur RE: Association between traumatic stress load, psychopathology, and cognition in the Philadelphia Neurodevelopmental Cohort. Psychological Medicine 49(2): 325-334, Jan 2019.
115. Lydon-Staley DM, Ciric R, Satterthwaite TD, Bassett DS: Evaluation of confound regression strategies for the mitigation of micromovement artifact in studies of dynamic resting state functional connectivity and multilayer network modularity. Network Neuroscience 3(2): 427-454, Feb 2019 Notes: doi: 10.1162/netn\_a\_00071.
116. Cornblath EJ, Tang E, Baum GL, Moore TM, Adebimpe A, Roalf DR, Gur RC, Gur RE, Pasqualetti F, Satterthwaite TD\*, Bassett DS\*: Sex differences in network controllability as a predictor of executive function in youth. NeuroImage 188: 122-134, Mar 2019 Notes: Shared last authorship. doi: 10.1016/j.neuroimage.2018.11.048.
117. Vandekar SN, Shou H, Satterthwaite TD, Shinohara RT, Merikangas AK, Roalf DR, Ruparel K, Rosen A, Gennatas ED, Elliott MA, Davatzikos C, Gur RC, Gur RE, Detre JA: Sex differences in estimated brain metabolism in relation to body growth through adolescence. Journal of Cerebral Blood Flow and Metabolism 39(3): 524-535, Mar 2019 Notes: doi: 10.1177/0271678X17737692.
118. Tooley UA, Mackey AP, Ciric R, Ruparel K, Moore TM, Gur RC, Gur RE, Satterthwaite TD, Bassett DS: Associations between neighborhood SES and functional brain network development. Cerebral Cortex April 2019 Notes: pii: bhz066. doi: 10.1093/cercor/bhz066.
119. Yerys BE, Tunç B, Satterthwaite TD, Antezana L, Mosner MG, Bertollo JR, Guy L, Schultz RT, & Herrington JD: Functional connectivity of fronto-parietal and salience/ventral attention networks Have independent associations with co-occurring attention-deficit/hyperactivity Disorder symptoms in children with autism. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 4(4): 343-351, Apr 2019 Notes: doi: 10.1016/j.bpsc.2018.12.012.
120. Scott JC\*, Rosen AFG\*, Moore TM, Roalf DR, Satterthwaite TD, Calkins ME,

- Ruparel K, Gur RE, Gur RC: Cannabis use in youth is associated with limited alterations in brain structure. Neuropsychopharmacology 44(8): 1362-1369, Jul 2019 Notes: doi: 10.1038/s41386-019-0347-2.
121. Gur RE, Moore TM, Rosen AFG, Barzilay R, Roalf DR, Calkins ME, Ruparel K, Scott JC, Almasy L, Satterthwaite TD, Shinohara RT, Gur RC: Burden of environmental adversity associated with psychopathology, maturation, and brain behavior parameters in youths. JAMA Psychiatry 76(9): 966-975, Sep 2019 Notes: doi: 10.1001/jamapsychiatry.2019.0943.
122. Jirsaraie RJ, Kaczkurkin AN, Rush S, Piiwia K, Adebimpe A, Bassett DS, Bourque J, Calkins ME, Cieslak M, Ciric R, Cook PA, Davila D, Elliott MA, Leibenluft E, Murtha K, Roalf DR, Rosen AFG, Ruparel K, Shinohara RT, Sotiras A, Wolf DH, Davatzikos C, Satterthwaite TD: Accelerated cortical thinning within structural brain networks is associated with irritability in youth Neuropsychopharmacology Sep 2019 Notes: doi: 10.1038/s41386-019-0508-3.
123. Moore TM, Calkins ME, Satterthwaite TD, Roalf DR, Rosen AFG, Gur RC, Gur RE: Development of a computerized adaptive screening tool for overall psychopathology ("p"). Journal of Psychiatric Research 116: 26-33, Sep 2019 Notes: doi: 10.1016/j.jpsychires.2019.05.028.
124. Osmanoglu Y, Tunc B, Parker D, Elliott MA, Baum GL, Ciric R, Satterthwaite TD, Gur RE, Gur GC, Verma R: System-level matching of structural and functional connectomes in the human brain. NeuroImage 199: 93-104, Oct 2019.
125. Kaczkurkin AN, Park SS, Sotiras A, Moore TM, Calkins ME, Cieslak M, Rosen AFG, Ciric R, Xia CH, Cui Z, Sharma A, Wolf DH, Ruparel K, Pine DS, Shinohara RT, Roalf DR, Gur RC, Davatzikos C, Gur RE, Satterthwaite TD: Evidence for dissociable linkage of dimensions of psychopathology to brain structure in youths. American Journal of Psychiatry 176(12): 1000-1009, Dec 2019.
126. Loeffler LAK, Satterthwaite TD, Habel U, Schneider F, Radke S, Derntl B: Attention control and its emotion-specific association with cognitive emotion regulation in depression. Brain Imaging and Behavior 13(6): 1766-1779, Dec 2019.
127. Vandekar SN, Satterthwaite TD, Xia CH, Adebimpe A, Ruparel K, Gur RC, Gur RE, Shinohara RT: Robust spatial extent inference with a semiparametric bootstrap joint inference procedure. Biometrics 75(4): 1145-1155, Dec 2019.
128. Baum GL, Cui Z, Roalf DR, Ciric R, Betzel RF, Larsen B, Cieslak M, Cook PA, Xia CH, Moore TM, Ruparel K, Oathes DJ, Alexander-Bloch AF, Shinohara RT, Raznahan A, Gur RE, Gur RC, Bassett DS, Satterthwaite TD: Development of structure function coupling in human brain networks during youth. Proceedings of

the National Academy of Sciences 117(1): 771-778, Jan 2020.

129. Wierenga LM, Doucet GE, Dima D, Agartz I, Aghajani M, Akudjedu TN, Albajes-Eizagirre A, Alnaes D, Alpert KI, Andreassen OA, Anticevic A, Asherson P, Banaschewski T, Bargallo N, Baumeister S, Baur-Streubel R, Bertolino A, Bonvino A, Boomsma DI, Borgwardt S, Bourque J, den Braber A, Brandeis D, Breier A, Brodaty H, Brouwer RM, Buitelaar JK, Busatto GF, Calhoun VD, Canales-Rodríguez EJ, Cannon DM, Caseras X, Castellanos FX, Chaim-Avancini TM, Ching CR, Clark VP, Conrod PJ, Conzelmann A, Crivello F, Davey CG, Dickie EW, Ehrlich S, Van't Ent D, Fisher SE, Fouche JP, Franke B, Fuentes-Claramonte P, de Geus EJ, Di Giorgio A, Glahn DC, Gotlib IH, Grabe HJ, Gruber O, Gruner P, Gur RE, Gur RC, Gurholt TP, de Haan L, Haatveit B, Harrison BJ, Hartman CA, Hatton SN, Heslenfeld DJ, van den Heuvel OA, Hickie IB, Hoekstra PJ, Hohmann S, Holmes AJ, Hoogman M, Hosten N, Howells FM, Hulshoff Pol HE, Huyser C, Jahanshad N, James AC, Jiang J, Jönsson EG, Joska JA, Kalnin AJ; Karolinska Schizophrenia Project (KaSP) Consortium, Klein M, Koenders L, Kolskår KK, Krämer B, Kuntsi J, Lagopoulos J, Lazaro L, Lebedeva IS, Lee PH, Lochner C, Machielsen MW, Maingault S, Martin NG, Martínez-Zalacaín I, Mataix-Cols D, Mazoyer B, McDonald BC, McDonald C, McIntosh AM, McMahon KL, et al.: Greater male than female variability in regional brain structure across the lifespan. Human Brain Mapping 43(1): 470-499, Jan 2020.
130. Larsen B, Bourque J, Moore TM, Adebimpe A, Calkins ME, Elliott MA, Gur RC, Gur RE, Moberg P, Roalf DR, Ruparel R, Turetsky BI, Vandekar SN, Wolf DH, Shinohara RT, Satterthwaite TD: Longitudinal development of brain iron is linked to cognition in youth. Journal of Neuroscience 40(9): 1810-1818, Feb 2020.
131. Mukherjee D, Lee S, Kazinka R, Satterthwaite TD, Kable JW: Multiple facets of value-based decision making in major depressive disorder. Scientific Reports 10: 3415, Feb 2020.
132. Truelove-Hill M, Erus G, Bashyam V, Varol E, Sako C, Gur RC, Gur RE, Koutsouleris N, Fan Y, Wolf DH, Satterthwaite TD, Davatzikos C: A Multidimensional Neural Maturation Index Reveals Reproducible Developmental Patterns in Children and Adolescents Journal of Neuroscience 40(6): 1265-1275, Feb 2020.
133. Alexander-Bloch AF, Vandekar SN, Seidlitz J, Lu Z, Matthias SR, Curran JE, Goring HH, Satterthwaite TD, Gur RE, Bassett DS, Hoftman GD, Pearlson G, Shinohara RT, Liu S, Fox PT, Blangero J, Raznahan R, Glahn DC: Imaging local genetic influences on cortical folding. Proceedings of the National Academy of Sciences of the United States of America 117(13): 7430-7436, Mar 2020.
134. Chand GB, Dwyer DB, ERus G, Sotiras A, Varol E, Srinivasan D, Doshi J, Pomponio R, Pigoni A, Dazzan P, Kahn RS, Schnack HG, Zanetti MV,



- Meisenzahl E, Busatto GF, Crespo-Facorro, B, Pantelis C, Wood SJ, Zho C, Shinohara RT, Shou H, Fan Y, Gur RC, Gur RE, Satterthwaite TD, Koutsouleris N, Wolf DH, Davatzikos C: Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. Brain 143(3): 1027-1038, Mar 2020.
135. Cui Z, Stiso J, Baum GL, Kim JZ, Roalf DR, Betzel RF, Gu S, Lu Z, Xia CH, He X, Ciric R, Oathes DJ, Moore TM, Shinohara RT, Ruparel K, Davatzikos C, Pasqualetti F, Gur RE, Gur RC, Bassett DS, Satterthwaite TD: Optimization of energy state transition trajectory supports the development of executive function during youth. eLife 9: e53060, Mar 2020.
136. Gu S, Xia CH, Ciric R, Moore TM, Gur RC, Gur RE, Satterthwaite TD,\* Bassett DS\*: Unifying the notions of modularity and core-periphery structure in functional brain networks during youth. Cerebral Cortex 30(3): 1087-1102, Mar 2020.
137. Kaczkurkin AN, Sotrias A, Baller EB, Barzilay R, Calkins ME, Chand GB, Cui Z, Erus G, Fan Y, Gur RE, Gur RC, Moore TM, Roalf DR, Rosen AFG, Ruparel K, Shinohara RT, Varol E, Wolf DH, Davatzikos C, Satterthwaite TD: Neurostructural heterogeneity in youth with internalizing symptoms. Biological Psychiatry 87(5): 473-482, Mar 2020.
138. Pomponio R, Erus G, Habes H, Doshi J, Srinivasan D, Mamourian E, Bashyam V, Fan Y, Launer LJ, Masters CL, Maruff O, Zhuo C, Nasrallah IM, Volzke H, Johnson SC, Fripp J, Koutsouleris N, Satterthwaite TD, Wolf DH, Gur RE, Gur RC, Morris J, Albert MS, Grabe HJ, Resnick SM, Bryan RN, Wolk DA, Shinohara RT, Shou H, Davatzikos C: Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan NeuroImage 208: 116450, Mar 2020.
139. Cui Z, Li H, Xia C, Larsen B, Adebimpe A, Baum GL, Cieslak M, Gur RE, Gur RC, Moore TM, Oathes DJ, Alexander-Bloch A, Raznahan A, Roalf DR, Shinohara RT, Wolf DH, Davatzikos C, Bassett DS, Fair DA, Fan Y, Satterthwaite TD: Individual Variation in Functional Topography of Association Networks in Youth. Neuron 106(2): 340-353, Apr 2020.
140. Cornblath EJ, Ashourvan A, Kim JZ, Betzel RF, Ciric R, Baum GL, Ruparel K, Moore TM, Gur RC, Gur RE, Shinohara RT, Roalf DR, Satterthwaite TD\*, Bassett TD\*: Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands. Communications Biology 3(1): 261, May 2020.
141. Xu A, Larsen B, Baller EB, Scott JC, Sharma V, Adebimpe A, Basbaum AI, Dworkin RH, Edwards RR, Woolf CJ, Eickhoff SB, Eickhoff CR, Satterthwaite TD: Convergent neural representations of experimentally-induced acute pain in

healthy volunteers: A large-scale fMRI meta-analysis. Neuroscience & Biobehavioral Reviews 112: 300-323, May 2020.

142. Holleran L, Kelly S, Alloza C, Agartz I, Andreassen OA, Arango C, Banaj N, Calhoun V, Cannon D, Carr V, Corvin A, Glahn DC, Gur R, Hong E, Hschi C, Howells FM, James A, Janssen J, Kochunov P, Lawrie SM, Liu J, Martinez C, McDonald C, Morris D, Mothersill D, Pantellis C, Piras F, Potkin S, Rasser PE, Roalf D, Rowland L, Satterthwaite TD, Schall U, Spalletta G, Spaniel F, Stein DJ, Uhlmann A, Voineskos A, Zalesky A, Van Erp TG, Turner JA, Deary I, Thompson PM, Jahanshad N, Donohoe G: The relationship between white matter microstructure and general cognitive ability in patients with schizophrenia and healthy participants in the ENIGMA consortium. The American Journal of Psychiatry 177(6): 537-547, Jun 2020.
143. Neufeld NH, Kaczkurkin AN, Sotiras A, Mulsant BH, Dickie EW, Flint AJ, Meyers BS, Alexopolous GS, Rothschild AJ, Whyte EM, Mah L, Nierenberg J, Hoptman MJ, Davatzikos C, Satterthwaite TD, Voineskos AN: Structural brain networks in remitted psychotic depression. Neuropsychopharmacology 45(7): 1223-1231, Jun 2020.
144. Pines AR, Cieslak M, Larsen B, Baum GL, Cook PA, Adebimpe A, Davila DG, Elliott MA, Jirsaire, Murtha K, Oathes DJ, Piiwaa K, Rosen AFG, Rush S, Shinohara RT, Bassett DS, Roalf DR, Satterthwaite TD: Leveraging multi-shell diffusion for studies of brain development in youth and young adulthood. Developmental Cognitive Neuroscience 43: 100788, June 2020.
145. Sariyanidi E, Zampella CJ, Bartley KG, Herrington J, Satterthwaite TD, Schultz RT, Tunc B : Discovering Synchronized Subsets of Sequences: A Large Scale Solution. IEEE Conference on Computer Vision and Pattern Recognition Page: 9490-9499, Jun 2020.
146. Tang E, Ju H, Baum GL, Roalf DR, Satterthwaite TD, Pasqualetti F, Bassett DS: Control of brain network dynamics across diverse scales of space and time. Physical Review E June 2020.
147. Alexander-Bloch AF, Raznahan A, Shinohara RT, Mathias SR, Bathulapalli H, Bhalla IP, Goulet J, Satterthwaite TD, Bassett DS, Glahn DC, Brandt CA: The architecture of co-morbidity networks of physical and mental healthconditions in military veterans. Proceedings of the Royal Society A 476(2239): 20190790, Jul 2020.
148. Bashyam V, Erus G, Doshi J, Habes M, Srinivasan D, Mamourian L, Pomponio R, Hill M, Fan Y, Launer L, Master C, Maruff P, Zhou C, Nasrallah I, Völzke H, Johnson SC, Fripp J, Koutsouleris N, Satterthwaite TD, Wolf DH, Gur RE, Gur RC, Morris J, Albert MS, Grabe HJ, Resnick S, Bryan N, Wolk DA, Shou H, Davatzikos C: MRI signatures of brain age and disease over the lifespan based on

- a deep brain network and 14 468 individuals worldwide Brain 143(7): 2312-2324, July 2020.
149. Xia CH, Ma Z, Cui Z, Bzdok D, Thirion B, Bassett DS, Satterthwaite TD, Shinohara RT, Witten D: Multi-scale network regression for brain-phenotype associations. Human Brain Mapping 41(19): 2553-2566, Jul 2020.
150. Forde NJ, Jeyachandra J, Joseph M, Jacobs GR, E Dickie E, Satterthwaite TD, Shinohara RT, Ameis SH, Voineskos AN: Sex differences in variability of brain structure across the lifespan Cerebral Cortex 3(30): 5420-5430, Sep 2020.
151. Nunes A, Schnack HG, Ching CRK, Agartz I, Akudjedu TN, Alda M, Alnæs D, Alonso-Lana S, Bauer J, Baune BT, Bøen E, Bonnin CDM, Busatto GF, Canales-Rodríguez EJ, Cannon DM, Caseras X, Chaim-Avancini TM, Dannlowski U, Díaz-Zuluaga AM, Dietsche B, Doan NT, Duchesnay E, Elvsåshagen T, Emden D, Eyler LT, Fatjó-Vilas M, Favre P, Foley SF, Fullerton JM, Glahn DC, Goikolea JM, Grotegerd D, Hahn T, Henry C, Hibar DP, Houenou J, Howells FM, Jahanshad N, Kaufmann T, Kenney J, Kircher TTJ, Krug A, Lagerberg TV, Lenroot RK, López-Jaramillo C, Machado-Vieira R, Malt UF, McDonald C, Mitchell PB, Mwangi B, Nabulsi L, Opel N, Overs BJ, Pineda-Zapata JA, Pomarol-Clotet E, Redlich R, Roberts G, Rosa PG, Salvador R, Satterthwaite TD, Soares J, Stein DJ, Temmingh HS, Trappenberg T, Uhlmann A, van Haren NEM, Vieta E, Westlye LT, Wolf DH, Yüksel D, Zanetti MV, Andreassen OA, Thompson PM, Hajek T; ENIGMA Bipolar Disorders Working Group: Using structural MRI to identify bipolar disorders - 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. Molecular Psychiatry 25(9): 2130-2143, Sep 2020 Notes: doi: 10.1038/s41380-018-0228-9.
152. Radua J, Vieta E, Shinohara R, Kochunov P, Quidé Y, Green MJ, Weickert CS, Weickert T, Bruggemann J, Kircher T, Nenadić I, Cairns MJ, Seal M, Schall U, Henskens F, Fullerton JM, Mowry B, Pantelis C, Lenroot R, Cropley V, Loughland C, Scott R, Wolf D, Satterthwaite TD, Tan Y, Sim K, Piras F, Spalletta G, Banaj N, Pomarol-Clotet E, Solanes A, Albajes-Eizagirre A, Canales-Rodríguez EJ, Sarro S, Di Giorgio A, Bertolino A, Stäblein M, Oertel V, Knöchel C, Borgwardt S, du Plessis S, Yun JY, Kwon JS, Dannlowski U, Hahn T, Grotegerd D, Alloza C, Arango C, Janssen J, Díaz-Caneja C, Jiang W, Calhoun V, Ehrlich S, Yang K, Cascella NG, Takayanagi Y, Sawa A, Tomyshev A, Lebedeva I, Kaleda V, Kirschner M, Hoschl C, Tomecek D, Skoch A, van Amelsvoort T, Bakker G, James A, Preda A, Weideman A, Stein DJ, Howells F, Uhlmann A, Temmingh H, López-Jaramillo C, Díaz-Zuluaga A, Fortea L, Martinez-Heras E, Solana E, Llufriu S, Jahanshad N, Thompson P, Turner J, van Erp T; ENIGMA Consortium collaborators.: Increased power by harmonizing structural MRI site differences with the ComBat batch adjustment method in ENIGMA. Neuroimage September 2020.

153. Shanmugan S, Cao W, Satterthwaite TD, Sammel MD, Ashourvan A, Bassett DS, Ruparel K, Gur RC, Epperson CN, Loughhead J: Impact of childhood adversity on network reconfiguration dynamics during working memory in hypogonadal women. Psychoneuroendocrinology 119: 104710, Sep 2020.
154. Roalf DR, Garza AG, Rosen AFG, Calkins ME, Moore ME, Quarmley M, Ruparel L, Xia CH, Rupert PE, Satterthwaite TD, Shinohara RT, Elliott MA, Gur RC, Gur RE : Alterations in white matter microstructure in individuals at persistent risk for psychosis. Molecular Psychiatry 25(10): 2441-2454, Oct 2020.
155. Mukherjee D, Filipowicz ALS, Vo K, Satterthwaite TD, Kable JW: Reward and punishment reversal-learning in major depressive disorder. Journal of Abnormal Psychology 129(8): 810-823, November 2020.
156. Barzilay R, Rosen AFGH, Moore TM, Roalf DR, Satterthwaite TD, Calkins ME, Ruparel K, Patrick A, Scott JC, Wolf DH, Gur RC, Gur RE: Structural Brain Patterns Associated with Traumatic Stress Resilience and Susceptibility to Mood and Anxiety Symptoms in Youths. Adversity and Resilience Science 1: 179-190, 2020.
157. Wrobel J, Martin ML, Bakshi R, Calabresi PA, Elliot M, Roalf DR, Gur RC, Gur RE, Henry RG, Nair G, Oh J, Papinutto N, Pelletier D, Reich DS, Rooney W, Satterthwaite TD, Stern W, Prabhakaran KP, Sicotte N, Shinohar RT, Goldsmith J: Intensity warping for multisite MRI harmonization. NeuroImage 223: 117242, Dec 2020.
158. Dima D, Modabbernia A, Papachristou E, Doucet GE, Agartz I, Aghajani M, Akudjedu TN, Albajes-Eizagirre A, Alnaes D, Alpert KI, Andersson M, Andreasen NC, Andreassen OA, Asherson P, Banaschewski T, Bargallo N, Baumeister S, Baur-Streubel R, Bertolino A, Bonvino A, Boomsma DI, Borgwardt S, Bourque J, Brandeis D, Breier A, Brodaty H, Brouwer RM, Buitelaar JK, Busatto GF, Buckner RL, Calhoun V, Canales-Rodríguez EJ, Cannon DM, Caseras X, Castellanos FX, Cervenka S, Chaim-Avancini TM, Ching CRK, Chubar V, Clark VP, Conrod P, Conzelmann A, Crespo-Facorro B, Crivello F, Crone EA, Dannlowski U, Dale AM, Davey C, de Geus EJC, de Haan L, de Zubicaray GI, den Braber A, Dickie EW, Di Giorgio A, Doan NT, Dørum ES, Ehrlich S, Erk S, Espeseth T, Fatouros-Bergman H, Fisher SE, Fouche JP, Franke B, Frodl T, Fuentes-Claramonte P, Glahn DC, Gotlib IH, Grabe HJ, Grimm O, Groenewold NA, Grotegerd D, Gruber O, Gruner P, Gur RE, Gur RC, Hahn T, Harrison BJ, Hartman CA, Hatton SN, Heinz A, Heslenfeld DJ, Hibar DP, Hickie IB, Ho BC, Hoekstra PJ, Hohmann S, Holmes AJ, Hoogman M, Hosten N, Howells FM, Hulshoff Pol HE, Huyser C, Jahanshad N, James A, Jernigan TL, Jiang J, Jönsson EG, Joska JA, Kahn R, Kalnin A, et al.: Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3-90 years. Human Brain Mapping 43(1): 452-469, Jan 2021.

159. Writing Committee for the Attention-Deficit/Hyperactivity Disorder; Autism Spectrum Disorder; Bipolar Disorder; Major Depressive Disorder; Obsessive-Compulsive Disorder; and Schizophrenia ENIGMA Working Groups, Patel Y, Parker N, Shin J, Howard D, French L, Thomopoulos SI, Pozzi E, Abe Y, Abé C, Anticevic A, Alda M, Aleman A, Alloza C, Alonso-Lana S, Ameis SH, Anagnostou E, McIntosh AA, Arango C, Arnold PD, Asherson P, Assogna F, Auzias G, Ayesa-Arriola R, Bakker G, Banaj N, Banaschewski T, Bandeira CE, Baranov A, Bargalló N, Bau CHD, Baumeister S, Baune BT, Bellgrove MA, Benedetti F, Bertolino A, Boedhoe PSW, Boks M, Bollettini I, Del Mar Bonnin C, Borgers T, Borgwardt S, Brandeis D, Brennan BP, Bruggemann JM, Bülow R, Busatto GF, Calderoni S, Calhoun VD, Calvo R, Canales-Rodríguez EJ, Cannon DM, Carr VJ, Cascella N, Cercignani M, Chaim-Avancini TM, Christakou A, Coghill D, Conzelmann A, Crespo-Facorro B, Cubillo AI, Cullen KR, Cupertino RB, Daly E, Dannlowski U, Davey CG, Denys D, Deruelle C, Di Giorgio A, Dickie EW, Dima D, Dohm K, Ehrlich S, Ely BA, Erwin-Grabner T, Ethofer T, Fair DA, Fallgatter AJ, Faraone SV, Fatjó-Vilas M, Fedor JM, Fitzgerald KD, Ford JM, Frodl T, Fu CHY, Fullerton JM, Gabel MC, Glahn DC, Roberts G, Gogberashvili T, Goikolea JM, Gotlib IH, Goya-Maldonado R, Grabe HJ, Green MJ, et al.: Virtual Histology of Cortical Thickness and Shared Neurobiology in 6 Psychiatric Disorders. JAMA Psychiatry 78: 47-63, Jan 2021.
160. Xu A, Larsen B, Henn A, Baller EB, Scott JC, Sharma V, Adebimpe A, Basbaum AI, Corder G, Dworkin RH, Edwards RR, Woolf CJ, Eickhoff SB, Eickhoff CR, Satterthwaite TD.: Brain Responses to Noxious Stimuli in Patients With Chronic Pain: A Systematic Review and Meta-analysis. JAMA Netw Open 4: e2032236, Jan 2021.
161. Gur RC, Butler ER, Moore TM, Rosen AFG, Ruparel K, Satterthwaite TD, Roalf DR, Gennatas ED, Bilker WB, Shinohara RT, Port A, Elliott MA, Verma R, Davatzikos C, Wolf DH, Detre JA, Gur RE.: Structural and Functional Brain Parameters Related to Cognitive Performance Across Development: Replication and Extension of the Parieto-Frontal Integration Theory in a Single Sample. Cereb Cortex 31: 1444-1463, Feb 2021.
162. Baller EB, Kaczkurkin AN, Sotiras A, Adebimpe A, Bassett DS, Calkins ME, Chand G, Cui Z, Gur RE, Gur RC, Linn KA, Moore T, Roalf DR, Varol E, Wolf DH, Xia CH, Davatzikos C, Satterthwaite TD: Neurocognitive and functional heterogeneity in depressed youth. Neuropsychopharmacology 46(4): 783-790, Mar 2021.
163. Sahoo D, Satterthwaite TD, Davatzikos C: Hierarchical Extraction of Functional Connectivity Components in Human Brain Using Resting-State fMRI. IEEE Transactions in Medical Imaging 40(3): 940-950, March 2021.
164. Nadig A, Seidlitz J, McDermott CL, Liu S, Bethlehem R, Moore TM, Mallard TT, Clasen LS, Blumenthal JD, Lalonde F, Gur RC, Gur RE, Bullmore ET,

- Satterthwaite TD, Raznahan A: Morphological integration of the human brain across adolescence and adulthood. Proceedings of the National Academy of Sciences 118(14): e2023860118, April 2021.
165. Parkes L, Moore TM, Calkins ME, Cook PA, Cieslak M, Roalf DR, Wolf DH, Gur RC, Gur RE, Satterthwaite TD\*, Bassett DS\*: Transdiagnostic dimensions of psychopathology explain individuals' unique deviations from normative neurodevelopment in brain structure. Translational Psychiatry 11(1): 232, April 2021.
166. Sydnor VJ, Larsen B, Kohler C, Crow AJD, Rush SL, Calkins ME, Gur RC, Gur RE, Ruparel K, Kable JW, Young JF, Chawla S, Elliott MA, Shinohara RT, Nanga RPR, Reddy R, Wolf DH, Satterthwaite TD, Roalf DR.: Diminished reward responsiveness is associated with lower reward network GluCEST: an ultra-high field glutamate imaging study. Mol Psychiatry 26(6): 2137-2147, Jun 2021.
167. Tapera TM, Cieslak M, Bertolero M, Adebimpe A, Aguirre GK, Butler ER, Cook PA, Davila D, Elliott MA, Linguiti S, Murtha K, Tackett W, Detre JA, Satterthwaite TD.: FlywheelTools: Data Curation and Manipulation on the Flywheel Platform. Front Neuroinform 15: 678403, Jun 2021.
168. Cieslak M, Cook PA, He X, Yeh FC, Dhollander T, Adebimpe A, Aguirre GK, Bassett DS, Betzel RF, Bourque J, Cabral LM, Davatzikos C, Detre JA, Earl E, Elliott MA, Fadnavis S, Fair DA, Foran W, Fotiadis P, Garyfallidis E, Giesbrecht B, Gur RC, Gur RE, Kelz MB, Keshavan A, Larsen BS, Luna B, Mackey AP, Milham MP, Oathes DJ, Perrone A, Pines AR, Roalf DR, Richie-Halford A, Rokem A, Sydnor VJ, Tapera TM, Tooley UA, Vettel JM, Yeatman JD, Grafton ST, Satterthwaite TD: QSIPrep: an integrative platform for preprocessing and reconstructing diffusion MRI data. Nature Methods 18(7): 775-778, July 2021.
169. Dworkin JD, Linn KA, Solomon AJ, Satterthwaite TD, Raznahan A, Bakshi R, Shinohara RT: A local group differences test for subject-level multivariate density neuroimaging outcomes. Biostatistics 22(3): 646-661, July 2021.
170. Alexander-Bloch AF, Sood R, Shinohara RT, Moore TM, Calkins ME, Chertavian C, Wolf DH, Gur RC, Satterthwaite TD, Gur RE, Barzilay R.: Connectome-wide Functional Connectivity Abnormalities in Youth With Obsessive-Compulsive Symptoms. Biol Psychiatry Cogn Neurosci Neuroimaging Aug 2021.
171. Warling A, McDermott CL, Liu S, Seidlitz J, Rodrigue AL, Nadig A, Gur RC, Gur RE, Roalf D, Moore TM, Glahn D, Satterthwaite TD, Bullmore ET, Raznahan A: Regional white matter scaling in the human brain. Journal of Neuroscience 41(33): 7015-7028, Aug 2021.
172. Butler ER, Chen A, Ramadan R, Le TT, Ruparel K, Moore TM, Satterthwaite TD,

Zhang F, Shou H, Gur RC, Nichols TE, Shinohara RT: Pitfalls in brain age analyses. Human Brain Mapping 42(13): 4092-4101, Sep 2021.

173. Han LKM, Dinga R, Hahn T, Ching CRK, Eyer LT, Aftanas L, Aghajani M, Aleman A, Baune BT, Berger K, Brak I, Filho GB, Carballedo A, Connolly CG, Couvy-Duchesne B, Cullen KR, Dannlowski U, Davey CG, Dima D, Duran FLS, Enneking V, Filimonova E, Frenzel S, Frodl T, Fu CHY, Godlewska BR, Gotlib IH, Grabe HJ, Groenewold NA, Grotegerd D, Gruber O, Hall GB, Harrison BJ, Hatton SN, Hermesdorf M, Hickie IB, Ho TC, Hosten N, Jansen A, Kähler C, Kircher T, Klimes-Dougan B, Krämer B, Krug A, Lagopoulos J, Leenings R, MacMaster FP, MacQueen G, McIntosh A, McLellan Q, McMahon KL, Medland SE, Mueller BA, Mwangi B, Osipov E, Portella MJ, Pozzi E, Reneman L, Repple J, Rosa PGP, Sacchet MD, Sämann PG, Schnell K, Schranke A, Simulionyte E, Soares JC, Sommer J, Stein DJ, Steinsträter O, Strike LT, Thomopoulos SI, van Tol MJ, Veer IM, Vermeiren RRJM, Walter H, van der Wee NJA, van der Werff SJA, Whalley H, Winter NR, Wittfeld K, Wright MJ, Wu MJ, Völzke H, Yang TT, Zannias V, de Zubicaray GI, Zunta-Soares GB, Abé C, Alda M, Andreassen OA, Bøen E, Bonnin CM, Canales-Rodriguez EJ, Cannon D, Caseras X, Chaim-Avancini TM, Elvsåshagen T, Favre P, Foley SF, Fullerton JM, et al.: Brain aging in major depressive disorder: results from the ENIGMA major depressive disorder working group. Molecular Psychiatry 26(9): 5124-5139. Sep 2021.
174. Parkes L, Moore TM, Calkins ME, Cieslak M, Roalf DR, Wolf DH, Gur RC, Gur RE, Satterthwaite TD, Bassett DS.: Network Controllability in Transmodal Cortex Predicts Positive Psychosis Spectrum Symptoms. Biol Psychiatry 90: 409-418, Sep 2021.
175. Harrewijn A, Cardinale EM, Groenewold NA, Bas-Hoogendam JM, Aghajani M, Hilbert K, Cardoner N, Porta-Casteràs D, Gosnell S, Salas R, Jackowski AP, Pan PM, Salum GA, Blair KS, Blair JR, Hammoud MZ, Milad MR, Burkhouse KL, Phan KL, Schroeder HK, Strawn JR, Beesdo-Baum K, Jahanshad N, Thomopoulos SI, Buckner R, Nielsen JA, Smoller JW, Soares JC, Mwangi B, Wu MJ, Zunta-Soares GB, Assaf M, Diefenbach GJ, Brambilla P, Maggioni E, Hofmann D, Straube T, Andreescu C, Berta R, Tamburo E, Price RB, Manfro GG, Agosta F, Canu E, Cividini C, Filippi M, Kostić M, Munjiza Jovanovic A, Alberton BAV, Benson B, Freitag GF, Filippi CA, Gold AL, Leibenluft E, Ringlein GV, Werwath KE, Zwiebel H, Zugman A, Grabe HJ, Van der Auwera S, Wittfeld K, Völzke H, Bülow R, Balderston NL, Ernst M, Grillon C, Mujica-Parodi LR, van Nieuwenhuizen H, Critchley HD, Makovac E, Mancini M, Meeten F, Ottaviani C, Ball TM, Fonzo GA, Paulus MP, Stein MB, Gur RE, Gur RC, Kaczkurkin AN, Larsen B, Satterthwaite TD, Harper J, Myers M, Perino MT, Sylvester CM, Yu Q, Lueken U, Veltman DJ, Thompson PM, Stein DJ, Van der Wee NJA, Winkler AM, Pine DS: Cortical and subcortical brain structure in generalized anxiety disorder: findings from 28 research sites in the ENIGMA-Anxiety Working Group. Translational Psychiatry 11(1): 502, Oct

2021.

176. Prettyman GE, Kable JW, Didier P, Shankar S, Satterthwaite TD, Davatzikos C, Bilker WB, Elliott MA, Ruparel K, Wolf DH.: Relationship of ventral striatum activation during effort discounting to clinical amotivation severity in schizophrenia. NPJ Schizophr 7: 48, Oct 2021.
177. Weinstein SM, Vandekar SN, Adebimpe A, Tapera TM, Robert-Fitzgerald T, Gur RC, Gur RE, Raznahan A, Satterthwaite TD, Alexander-Bloch AF, Shinohara RT: A simple permutation-based test of intermodal correspondence. Human Brain Mapping 42(16): 5175-5187, Nov 2021.
178. Axelrud LK, Simioni AR, Pine DS, Winkler AM, Pan PM, Sato JR, Zugman A, Parker N, Picon F, Jackowski A, Hoexter MQ, IMAGEN Consortium, Barker G, Martinot JL, Martinot MLP, Satterthwaite TD, Rohde LA, Milham M, Barker ED, Salum GA: Neuroimaging association scores: reliability and validity of aggregate measures of brain structural features linked to mental disorders in youth. European Journal of Child and Adolescent Psychiatry 30(12): 1895-1906, Dec 2021.
179. Frangou S, Modabbernia A, Williams SCR, Papachristou E, Doucet GE, Agartz I, Aghajani M, Akudjedu TN, Albajes-Eizagirre A, Alnaes D, Alpert KI, Andersson M, Andreasen NC, Andreassen OA, Asherson P, Banaschewski T, Bargallo N, Baumeister S, Baur-Streubel R, Bertolino A, Bonvino A, Boomsma DI, Borgwardt S, Bourque J, Brandeis D, Breier A, Brodaty H, Brouwer RM, Buitelaar JK, Busatto GF, Buckner RL, Calhoun V, Canales-Rodríguez EJ, Cannon DM, Caseras X, Castellanos FX, Cervenka S, Chaim-Avancini TM, Ching CRK, Chubar V, Clark VP, Conrod P, Conzelmann A, Crespo-Facorro B, Crivello F, Crone EA, Dale AM, Dannlowski U, Davey C, de Geus EJC, de Haan L, de Zubicaray GI, den Braber A, Dickie EW, Di Giorgio A, Doan NT, Dørum ES, Ehrlich S, Erk S, Espeseth T, Fatouros-Bergman H, Fisher SE, Fouche JP, Franke B, Frodl T, Fuentes-Claramonte P, Glahn DC, Gotlib IH, Grabe HJ, Grimm O, Groenewold NA, Grotegerd D, Gruber O, Gruner P, Gur RE, Gur RC, Hahn T, Harrison BJ, Hartman CA, Hatton SN, Heinz A, Heslenfeld DJ, Hibar DP, Hickie IB, Ho BC, Hoekstra PJ, Hohmann S, Holmes AJ, Hoogman M, Hosten N, Howells FM, Hulshoff Pol HE, Huyser C, Jahanshad N, James A, Jernigan TL, Jiang J, Jönsson EG, Joska JA, Kahn R et al.: Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3-90 years. Human Brain Mapping 43(1): 431-451, Jan 2022.
180. Gutman BA, van Erp TGM, Alpert K, Ching CRK, Isaev D, Ragothaman A, Jahanshad N, Saremi A, Zavaliangos-Petropulu A, Glahn DC, Shen L, Cong S, Alnaes D, Andreassen OA, Doan NT, Westlye LT, Kochunov P, Satterthwaite TD, Wolf DH, Huang AJ, Kessler C, Weideman A, Nguyen D, Mueller BA, Faziola L, Potkin SG, Preda A, Mathalon DH, Bustillo J, Calhoun V, Ford JM, Walton E, Ehrlich S, Ducci G, Banaj N, Piras F, Piras F, Spalletta G,



- Canales-Rodríguez EJ, Fuentes-Claramonte P, Pomarol-Clotet E, Radua J, Salvador R, Sarró S, Dickie EW, Voineskos A, Tordesillas-Gutiérrez D, Crespo-Facorro B, Setián-Suero E, van Son JM, Borgwardt S, Schönborn-Harrisberger F, Morris D, Donohoe G, Holleran L, Cannon D, McDonald C, Corvin A, Gill M, Filho GB, Rosa PGP, Serpa MH, Zanetti MV, Lebedeva I, Kaleda V, Tomyshev A, Crow T, James A, Cervenka S, Sellgren CM, Fatouros-Bergman H, Agartz I, Howells F, Stein DJ, Temmingh H, Uhlmann A, de Zubicaray GI, McMahon KL, Wright M, Cobia D, Csernansky JG, Thompson PM, Turner JA, Wang L: A meta-analysis of deep brain structural shape and asymmetry abnormalities in 2,833 individuals with schizophrenia compared with 3,929 healthy volunteers via the ENIGMA Consortium. Human Brain Mapping 43(1): 352-372, Jan 2022.
181. Wen J, Varol E, Sotiras A, Yang Z, Chand GB, Erus G, Shou H, Abdulkadir A, Hwang G, Dwyer DB, Pigoni A, Dazzan P, Kahn RS, Schnack HG, Zanetti MV, Meisenzahl E, Busatto GF, Crespo-Facorro B, Rafael RG, Pantelis C, Wood SJ, Zhuo C, Shinohara RT, Fan Y, Gur RC, Gur RE, Satterthwaite TD, Koutsouleris N, Wolf DH, Davatzikos C; Alzheimer's Disease Neuroimaging Initiative.: Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. Med Image Anal 75: 102304, Jan 2022.
182. Cornblath EJ, Mahadevan A, He X, Ruparel K, Lydon-Staley DM, Moore TM, Gur RC, Zackai EH, Emanuel B, McDonald-McGinn DM, Wolf DH, Satterthwaite TD, Roalf DR, Gur RE, Bassett DS.: Altered functional brain dynamics in chromosome 22q11.2 deletion syndrome during facial affect processing. Mol Psychiatry 27(2): 1158-1166, Feb 2022.
183. Larsen B, Cui Z, Adebimpe A, Pines A, Alexander-Bloch A, Bertolero M, Calkins ME, Gur RE, Gur RC, Mahadevan AS, Moore TM, Roalf DR, Seidlitz J, Sydnor VJ, Wolf DH, Satterthwaite TD.: A developmental reduction of the excitation:inhibition ratio in association cortex during adolescence. Science Advances 8: eabj8750, Feb 2022.
184. Wolf DH, Zheng D, Kohler C, Turetsky BI, Ruparel K, Satterthwaite TD, Elliott MA, March ME, Cross AJ, Smith MA, Zukin SR, Gur RC, Gur RE.: Effect of mGluR2 positive allosteric modulation on frontostriatal working memory activation in schizophrenia. Mol Psychiatry 27(2): 1226-1232, Feb 2022.
185. Baller EB, Valcarcel AM, Adebimpe A, Alexander-Bloch A, Cui Z, Gur RC, Gur RE, Larsen BL, Linn KA, O'Donnell CM, Pines AR, Raznahan A, Roalf DR, Sydnor VJ, Tapera TM, Tisdall MD, Vandekar S, Xia CH, Detre JA, Shinohara RT, Satterthwaite TD.: Developmental coupling of cerebral blood flow and fMRI fluctuations in youth. Cell Rep 38: 110576, Mar 2022.
186. Bashyam VM, Doshi J, Erus G, Srinivasan D, Abdulkadir A, Singh A, Habes M, Fan Y, Masters CL, Maruff P, Zhuo C, Völzke H, Johnson SC, Frripp J,

- Koutsouleris N, Satterthwaite TD, Wolf DH, Gur RE, Gur RC, Morris JC, Albert MS, Grabe HJ, Resnick SM, Bryan NR, Wittfeld K, Bülow R, Wolk DA, Shou H, Nasrallah IM, Davatzikos C; iSTAGING and PHENOM consortia: Deep Generative Medical Image Harmonization for Improving Cross-Site Generalization in Deep Learning Predictors. Journal of Magnetic Resonance Imaging 55(3): 908-916, Mar 2022.
187. Murtha K, Larsen B, Pines A, Parkes L, Moore TM, Adebimpe A, Bertolero M, Alexander-Bloch A, Calkins ME, Davila DG, Lindquist MA, Mackey AP, Roalf DR, Scott JC, Wolf DH, Gur RC, Gur RE, Barzilay R, Satterthwaite TD.: Associations between neighborhood socioeconomic status, parental education, and executive system activation in youth. Cereb Cortex Mar 2022.
188. Bethlehem RAI, Seidlitz J, White SR, Vogel JW, Anderson KM, Adamson C, Adler S, Alexopoulos GS, Anagnostou E, Areces-Gonzalez A, Astle DE, Auyeung B, Ayub M, Bae J, Ball G, Baron-Cohen S, Beare R, Bedford SA, Benegal V, Beyer F, Blangero J, Blesa Cábez M, Boardman JP, Borzage M, Bosch-Bayard JF, Bourke N, Calhoun VD, Chakravarty MM, Chen C, Chertavian C, Chetelat G, Chong YS, Cole JH, Corvin A, Costantino M, Courchesne E, Crivello F, Croypley VL, Crosbie J, Crossley N, Delarue M, Delorme R, Desrivieres S, Devenyi GA, Di Biase MA, Dolan R, Donald KA, Donohoe G, Dunlop K, Edwards AD, Ellison JT, Ellis CT, Elman JA, Eyer L, Fair DA, Feczko E, Fletcher PC, Fonagy P, Franz CE, Galan-García L, Gholipour A, Giedd J, Gilmore JH, Glahn DC, Goodyer IM, Grant PE, Groenewold NA, Gunning FM, Gur RE, Gur RC, Hammill CF, Hansson O, Hedden T, Heinz A, Henson RN, Heuer K, Hoare J, Holla B, Holmes AJ, Holt R, Huang H, Im K, Ipser J, Jack CR Jr, Jackowski AP, Jia T, Johnson KA, Jones PB, Jones DT, Kahn RS, Karlsson H, Karlsson L, Kawashima R, Kelley EA, Kern S, Kim KW, Kitzbichler MG, Kremen WS, Lalonde F, Landeau B, et al.: Brain charts for the human lifespan. Nature 604(7906): 525-533, April 2022.
189. Cardenas-Iniguez C, Moore TM, Kaczkurkin AN, Meyer FAC, Satterthwaite TD, Fair DA, White T, Blok E, Applegate B, Thompson LM, Rosenberg MD, Hedeker D, Berman MG, Lahey BB.: Direct and Indirect Associations of Widespread Individual Differences in Brain White Matter Microstructure With Executive Functioning and General and Specific Dimensions of Psychopathology in Children. Biol Psychiatry Cogn Neurosci Neuroimaging 7(4): 362-375, Apr 2022.
190. Cardenas-Iniguez C, Moore TM, Kaczkurkin AN, Meyer FAC, Satterthwaite TD, Fair DA, White TJH, Blok E, Applegate B, Thompson LM, Rosenberg MD, Hedeker D, Berman MG, Lahey BB: Associations of widespread variations in white matter microstructure with executive functioning and general and specific dimensions of psychopathology in children. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 7(4): 362-375, Apr 2022.
191. Chand GB, Singhal P, Dwyer DB, Wen J, Erus G, Doshi J, Srinivasan D,

- Mamourian E, Varol E, Sotiras A, Hwang G, Dazzan P, Kahn RS, Schnack HG, Zanetti MV, Meisenzahl E, Busatto GF, Crespo-Facorro B, Pantelis C, Wood SJ, Zhuo C, Shinohara RT, Shou H, Fan Y, Koutsouleris N, Kaczurkin AN, Moore TM, Verma A, Calkins ME, Gur RE, Gur RC, Ritchie MD, Satterthwaite TD, Wolf DH, Davatzikos C.: Schizophrenia Imaging Signatures and Their Associations With Cognition, Psychopathology, and Genetics in the General Population. Am J Psychiatry Apr 2022.
192. Frahm L, Cieslik EC, Hoffstaedter F, Satterthwaite TD, Fox PT, Langner R, Eickhoff SB.: Evaluation of thresholding methods for activation likelihood estimation meta-analysis via large-scale simulations. Hum Brain Mapp May 2022.
193. Henn AT, Larsen B, Frahm L, Xu A, Adebimpe A, Scott JC, Linguiti S, Sharma V, Basbaum AI, Corder G, Dworkin RH, Edwards RR, Woolf CJ, Habel U, Eickhoff SB, Eickhoff CR, Wagels L, Satterthwaite TD.: Structural imaging studies of patients with chronic pain: an anatomic likelihood estimate meta-analysis. Pain May 2022.
194. Pines AR, Larsen B, Cui Z, Sydnor VJ, Bertolero MA, Adebimpe A, Alexander-Bloch AF, Davatzikos C, Fair DA, Gur RC, Gur RE, Li H, Milham MP, Moore TM, Murtha K, Parkes L, Thompson-Schill SL, Shanmugan S, Shinohara RT, Weinstein SM, Bassett DS, Fan Y, Satterthwaite TD.: Dissociable multi-scale patterns of development in personalized brain networks. Nature Communications 13: 2647, May 2022.
195. Scopel Hoffmann M, Moore TM, Kvitko Axelrud L, Tottenham N, Zuo XN, Rohde LA, Milham MP, Satterthwaite TD, Salum GA.: Reliability and validity of bifactor models of dimensional psychopathology in youth. J Psychopathol Clin Sci 131(4): 407-421, May 2022.
196. Adebimpe A, Bertolero M, Dolui S, Cieslak M, Murtha K, Baller EB, Boeve B, Boxer A, Butler ER, Cook P, Colcombe S, Covitz S, Davatzikos C, Davila DG, Elliott MA, Flounders MW, Franco AR, Gur RE, Gur RC, Jaber B, McMillian C; ALLFTD Consortium, Milham M, Mutsaerts HJMM, Oathes DJ, Olm CA, Phillips JS, Tackett W, Roalf DR, Rosen H, Taper TM, Tisdall MD, Zhou D, Esteban O, Poldrack RA, Detre JA, Satterthwaite TD.: ASLPrep: a platform for processing of arterial spin labeled MRI and quantification of regional brain perfusion. Nature Methods 19(6): 683-686, Jun 2022.
197. Hu F, Weinstein SM, Baller EB, Valcarcel AM, Adebimpe A, Raznahan A, Roalf DR, Robert-Fitzgerald TE, Gonzenbach V, Gur RC, Gur RE, Vandekar S, Detre JA, Linn KA, Alexander-Bloch A, Satterthwaite TD, Shinohara RT.: Voxel-wise intermodal coupling analysis of two or more modalities using local covariance decomposition. Hum Brain Mapp Jun 2022.
198. Sydnor VJ, Cieslak M, Duprat R, Deluisi J, Flounders MW, Long H, Scully M,

- Balderston NL, Sheline YI, Bassett DS, Satterthwaite TD, Oathes DJ.: Cortical-subcortical structural connections support transcranial magnetic stimulation engagement of the amygdala. Science Advances 8: eabn5803, Jun 2022.
199. Tu D, Goyal MS, Dworkin JD, Kampondeni S, Vidal L, Biondo-Savin E, Juvvadi S, Raghavan P, Nicholas J, Chetcuti K, Clark K, Robert-Fitzgerald T, Satterthwaite TD, Yushkevich P, Davatzikos C, Erus G, Tustison NJ, Postels DG, Taylor TE, Small DS, Shinohara RT.: Automated analysis of low-field brain MRI in cerebral malaria. Biometrics Jun 2022.
200. Alexander-Bloch A, Huguet G, Schultz LM, Huffnagle N, Jacquemont S, Seidlitz J, Saci Z, Moore TM, Bethlehem RAI, Mollon J, Knowles EK, Raznahan A, Merikangas A, Chaiyachati BH, Raman H, Schmitt JE, Barzilay R, Calkins ME, Shinohara RT, Satterthwaite TD, Gur RC, Glahn DC, Almasy L, Gur RE, Hakonarson H, Glessner J.: Copy Number Variant Risk Scores Associated With Cognition, Psychopathology, and Brain Structure in Youths in the Philadelphia Neurodevelopmental Cohort. JAMA Psychiatry 79: 699-709, Jul 2022.
201. Mahony BW, Tu D, Rau S, Liu S, Lalonde FM, Alexander-Bloch AF, Satterthwaite TD, Shinohara RT, Bassett DS, Milham MP, Raznahan A.: IQ Modulates Coupling Between Diverse Dimensions of Psychopathology in Children and Adolescents. J Am Acad Child Adolesc Psychiatry Jul 2022.
202. Taskin HO, Qiao Y, Sydnor VJ, Cieslak M, Haggerty EB, Satterthwaite TD, Morgan JI, Shi Y, Aguirre GK.: Retinal ganglion cell endowment is correlated with optic tract fiber cross section, not density. Neuroimage Jul 2022.
203. Chen AA, Srinivasan D, Pomponio R, Fan Y, Nasrallah IM, Resnick SM, Beason-Held LL, Davatzikos C, Satterthwaite TD, Bassett DS, Shinohara RT, Shou H.: Harmonizing functional connectivity reduces scanner effects in community detection. Neuroimage 256: 119198, Aug 2022.
204. Clark SV, Satterthwaite TD, King TZ, Morris RD, Zendehrouh E, Turner JA.: Cerebellum-cingulo-opercular network connectivity strengthens in adolescence and supports attention efficiency only in childhood. Dev Cogn Neurosci 56: 101129, Aug 2022.
205. Xia CH, Barnett I, Tapera TM, Adebimpe A, Baker JT, Bassett DS, Brotman MA, Calkins ME, Cui Z, Leibenluft E, Linguiti S, Lydon-Staley DM, Martin ML, Moore TM, Murtha K, Piiwaa K, Pines A, Roalf DR, Rush-Goebel S, Wolf DH, Ungar LH, Satterthwaite TD.: Mobile footprinting: linking individual distinctiveness in mobility patterns to mood, sleep, and brain functional connectivity. Neuropsychopharmacology 47(9): 1662-1671, Aug 2022.

Research Publications, peer-reviewed reviews:

1. Satterthwaite TD, Cristancho MA, Alici Y, Weiss D, O'Reardon JP: Electroconvulsive therapy in a 72-year-old woman with a history of Takotsubo cardiomyopathy: A case report and review of the literature. Brain Stimulation 2(4): 238-40, Oct 2009.
2. Di Martino A, Fair DA, Kelly C, Satterthwaite TD, Castellanos FX, Thomason ME, Craddock RC, Luna B, Leventhal BL, Zuo X, Milham MP: Unraveling the miswired connectome: A developmental perspective. Neuron 83(6): 1335-53, Sep 2014.
3. Satterthwaite TD & Baker JT: How can studies of resting-state functional connectivity help us understand psychosis as a disorder of brain development? Current Opinion in Neurobiology 30: 85-91, Feb 2015.
4. Shanmugan S & Satterthwaite TD: Neural markers of the development of executive function: Relevance for education. Current Opinion in Behavioral Sciences 10: 7-13, Aug 2016.
5. Romer D, Reyna VF, Satterthwaite TD: Beyond stereotypes of adolescent risk taking: Placing the adolescent brain in developmental context. Developmental Cognitive Neuroscience 27: 19-34, Oct 2017.
6. Bassett DS, Xia CH, Satterthwaite TD: Understanding the emergence of neuropsychiatric disorders with network neuroscience. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 3(9): 742-753, Sep 2018.
7. Kaczkurkin AN, Raznahan A, Satterthwaite TD: Sex differences in the developing brain: insights from multimodal neuroimaging. Neuropsychopharmacology Reviews 44(1): 71-85, Jan 2019 Notes: doi: 10.1038/s41386-018-0111-z.
8. Lydon-Staley D, Barnett I, Satterthwaite TD, Bassett DS: Digital phenotyping for psychiatry: Accommodating data and theory with network science methodologies. Current Opinion in Biomedical Engineering 9: 8-13, March 2019.
9. Satterthwaite TD, Ciric R, Roalf DR, Davatzikos C, Bassett DS, Wolf DH: Motion artifact in studies of functional connectivity: Characteristics and mitigation strategies. Human Brain Mapping 40(7): 2033-2051, May 2019 Notes: doi: 10.1002/hbm.23665.
10. Kaczkurkin AN, Moore Tm, Sotiras A, Xia CH, Shinohara RT, Satterthwaite TD: Approaches to defining common and dissociable neurobiological deficits associated with psychopathology in youth. Biological Psychiatry 88(1): 51-62, Jul 2020.
11. Satterthwaite TD, Feczko E, Kaczkurkin AN, Fair DA: Parsing psychiatric heterogeneity through common and unique circuit-level deficits. Biological Psychiatry 88(1): 4-5, July 2020.

12. Wang H, Smallwood J, Mourao-Miranda J, Xia CH, Satterthwaite TD, Bassett DS, Bzdok D: Finding the needle in a high-dimensional haystack: Canonical correlation analysis for neuroscientists. NeuroImage 216: 116745, Aug 2020.
13. Chen R, Cui Z, Capitaio L, Wang G, Satterthwaite TD, Harmer C: Precision biomarkers for mood disorders based on brain imaging. BMJ 371: m3618, Oct 2020.
14. Parkes L, Satterthwaite TD, Bassett DS: Towards precise resting-state fMRI biomarkers in psychiatry: synthesizing developments in transdiagnostic research, dimensional models of psychopathology, and normative neurodevelopment. Current Opinion in Neurobiology 65: 120-128, December 2020.
15. Oathes DJ, Balderston NL, Kording KP, DeLuisi JA, Perez GM, Medaglia JD, Fan Y, Duprat RJ, Satterthwaite TD, Sheline YI, Linn KA: Combining transcranial magnetic stimulation with functional magnetic resonance imaging for probing and modulating neural circuits relevant to affective disorders. Wiley Interdisciplinary Reviews Cognitive Science 12(4): e1553, Jul 2021.
16. Sydnor VJ, Larsen B, Bassett DS, Alexander-Bloch A, Fair DA, Liston C, Mackey AP, Milham MP, Pines A, Roalf DR, Seidlitz J, Xu T, Raznahan A, Satterthwaite TD: Neurodevelopment of the association cortices: Patterns, mechanisms, and implications for psychopathology. Neuron 109(18): 2820-2846, Sep 2021.
17. Bas-Hoogendam JM, Groenewold NA, Aghajani M, Freitag GF, Harrewijn A, Hilbert K, Jahanshad N, Thomopoulos SI, Thompson PM, Veltman DJ, Winkler AM, Lueken U, Pine DS, van der Wee NJA, Stein DJ; ENIGMA-Anxiety Working Group.: ENIGMA-anxiety working group: Rationale for and organization of large-scale neuroimaging studies of anxiety disorders. Human Brain Mapping 43(1): 83-112, Jan 2022.
18. Ching CRK, Hibar DP, Gurholt TP, Nunes A, Thomopoulos SI, Abé C, Agartz I, Brouwer RM, Cannon DM, de Zwarte SMC, Eyer LT, Favre P, Hajek T, Haukvik UK, Houenou J, Landén M, Lett TA, McDonald C, Nabulsi L, Patel Y, Pauling ME, Paus T, Radua J, Soeiro-de-Souza MG, Tronchin G, van Haren NEM, Vieta E, Walter H, Zeng LL, Alda M, Almeida J, Alnaes D, Alonso-Lana S, Altimus C, Bauer M, Baune BT, Bearden CE, Bellani M, Benedetti F, Berk M, Bilderbeck AC, Blumberg HP, Bøen E, Bollettini I, Del Mar Bonnin C, Brambilla P, Canales-Rodríguez EJ, Caseras X, Dandash O, Dannlowski U, Delvecchio G, Díaz-Zuluaga AM, Dima D, Duchesnay É, Elvsåshagen T, Fears SC, Frangou S, Fullerton JM, Glahn DC, Goikolea JM, Green MJ, Grotegerd D, Gruber O, Haarman BCM, Henry C, Howells FM, Ives-Deliperi V, Jansen A, Kircher TTJ, Knöchel C, Kramer B, Lafer B, López-Jaramillo C, Machado-Vieira R, MacIntosh BJ, Melloni EMT, Mitchell PB, Nenadic I, Nery F, Nugent AC, Oertel V, Ophoff RA, Ota M, Overs BJ, Pham DL, Phillips ML, Pineda-Zapata JA,

Poletti S, Polosan M, Pomarol-Clotet E, Pouchon A, Quidé Y, Rive MM, Roberts G, Ruhe HG, Salvador R, Sarró S, Satterthwaite TD, Schene AH, Sim K, et al.: What we learn about bipolar disorder from large-scale neuroimaging: Findings and future directions from the ENIGMA Bipolar Disorder Working Group. Human Brain Mapping 43(1): 56-82, Jan 2022.

19. Kimmey B, McCall N, Wooldridge L, Satterthwaite TD, Corder G: Engaging endogenous opioid circuits in pain affective processes Journal of Neuroscience Research 100(1): 66-98, Jan 2022.
20. Kimmey BA, McCall NM, Wooldridge LM, Satterthwaite TD, Corder G: Engaging endogenous opioid circuits in pain affective processes. Journal of Neuroscience Research 100(1): 66-98, Jan 2022.
21. Zugman A, Harrewijn A, Cardinale EM, Zwiebel H, Freitag GF, Werwath KE, Bas-Hoogendam JM, Groenewold NA, Aghajani M, Hilbert K, Cardoner N, Porta-Casteràs D, Gosnell S, Salas R, Blair KS, Blair JR, Hammoud MZ, Milad M, Burkhouse K, Phan KL, Schroeder HK, Strawn JR, Beesdo-Baum K, Thomopoulos SI, Grabe HJ, Van der Auwera S, Wittfeld K, Nielsen JA, Buckner R, Smoller JW, Mwangi B, Soares JC, Wu MJ, Zunta-Soares GB, Jackowski AP, Pan PM, Salum GA, Assaf M, Diefenbach GJ, Brambilla P, Maggioni E, Hofmann D, Straube T, Andreescu C, Berta R, Tamburo E, Price R, Manfro GG, Critchley HD, Makovac E, Mancini M, Meeten F, Ottaviani C, Agosta F, Canu E, Cividini C, Filippi M, Kostić M, Munjiza A, Filippi CA, Leibenluft E, Alberton BAV, Balderston NL, Ernst M, Grillon C, Mujica-Parodi LR, van Nieuwenhuizen H, Fonzo GA, Paulus MP, Stein MB, Gur RE, Gur RC, Kaczkurkin AN, Larsen B, Satterthwaite TD, Harper J, Myers M, Perino MT, Yu Q, Sylvester CM, Veltman DJ, Lueken U, Van der Wee NJA, Stein DJ, Jahanshad N, Thompson PM, Pine DS, Winkler AM.: Mega-analysis methods in ENIGMA: The experience of the generalized anxiety disorder working group. Human Brain Mapping 43(1): 255-277, Jan 2022.
22. Dworkin RH, Anderson BT, Andrews N, Edwards RR, Grob CS, Ross S, Satterthwaite TD, Strain EC.: If the doors of perception were cleansed, would chronic pain be relieved? Evaluating the benefits and risks of psychedelics. J Pain May 2022.

Contributions to peer-reviewed research publications, participation cited but not by authorship:

1. Vincent JL, Snyder AZ, Fox MD, Shannon BJ, Andrews JR, Raichle ME, Buckner RL: Coherent spontaneous activity identifies a hippocampal-parietal memory network. Journal of Neurophysiology 96(6): 3517-31, Dec 2006.
2. Patel AX, Kundu P, Rubinov M, Jones PS, Vértes PE, Ersche KD, Suckling J, Bullmore ET: A wavelet method for modeling and despiking motion artifacts from resting-state fMRI time series. NeuroImage 95: 287-304, Jul 2014.

Research Publications, non-peer reviewed:

[none]

Abstracts (Last 3 years):

[none]

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. Satterthwaite TD & Davatzikos C: Towards an individualized delineation of functional neuroanatomy. Neuron 87(3): 471-3, Aug 2015.
2. Satterthwaite TD, Xia CH, Bassett DS: Personalized neuroscience: Common and individual-specific features in functional brain networks. Neuron 98(2): 243-44, Apr 2018.
3. National Academies of Sciences, Engineering, and Medicine: Brain Health Across the Life Span: Proceedings of a Workshop. The National Academies Press 2020.
4. Davatzikos C, Satterthwaite TD.: Commentary to "Translational machine learning for child and adolescent psychiatry" J Child Psychol Psychiatry 63(4): 444-446, Apr 2022.

Books:

[none]

Alternative Media:

1. Garcia de la Garza A, Vandekar S, Roalf DR, Ruparel K, Gur RC, Gur RE, Satterthwaite TD, Shinohara RT: Voxelwise analysis of NIfTI data. CRAN R package 2016.

Patents:

[none]



**PAST GRANT SUPPORT**

NAME: Theodore Daniel Satterthwaite, MD, MA

DEPARTMENT: Psychiatry

DATE: 08/01/2022

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category*</u>	<u>Role in Grant**</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>	<u>Additional Comments***</u>
1. - Reproducible informatics for diffusion and perfusion imaging	01/01/2020 - 07/01/2020	PG	PI	0	Center for Biomedical Image Computing and Analytics	\$30,000.00	
2. R01MH113550S - Diversity supplement to study the development of networks supporting executive function in youth	06/01/2019 - 05/30/2020	FG	PI	0	National Institute of Mental Health	\$50,000.00	
3. - Reducing delay discounting and selfishness with excitatory transcranial magnetic stimulation of the temporoparietal junction	04/01/2019 - 06/30/2021	PG	Co-I	5	AE Foundation	\$765,386.00	
4. CHIR396349 - Dynamic phenotyping of pathologic mood instability across affective disorders	07/01/2018 - 06/30/2022	O	Mentor	0	Canadian Institute of Health Research	\$54,835.00	Primary mentor, no effort
5. K99MH117274 - Delineating neurobiological heterogeneity in internalizing symptoms using machine learning and deep phenotyping	07/01/2018 - 06/30/2020	FG	Mentor	0	National Institute of Mental Health	\$102,275.00	Primary mentor for K99 phase, no effort
6. F31MH115709 - Mapping normal developmental coupling between structural and functional brain networks and abnormalities associated with psychosis	07/01/2018 - 11/30/2019	TG	Mentor	0	National Institute of Mental Health	\$37,670.00	Primary mentor
7. R01MH111886-02S1 - Leveraging network control theory to explain individual differences to non-invasive brain stimulation	05/18/2018 - 05/17/2019	FG	Co-I	1	National Institute of Mental Health	\$90,913.00	
8. 26356 - Mapping the development of anxiety In youth using mobile technology, multi-modal imaging, and	01/15/2018 - 01/14/2021	PG	Mentor	0	Brain & Behavior Research Foundation	\$30,000.00	Primary mentor, no effort

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

*If space is needed for more entries, use an additional sheet.*

multivariate analytics								
<b>9.</b>	- Mapping affective instability in youth using mobile phenotyping and multi-modal neuroimaging	01/02/2018 - 01/01/2022	PG	PI	1	AE Foundation Research	\$108,000.00	Funded at 20% effort, reduced to 1%
<b>10.</b>	- Creating a scalable infrastructure to accelerate clinical applications of functional connectomics	01/01/2018 - 12/31/2018	PG	PI	0	Center for Biomedical Image Computing and Analytics	\$30,000.00	Pilot grant, no effort
<b>11.</b>	R01MH11207 - Mapping heterogeneity of neuroanatomical imaging signatures of psychosis via pattern analysis	09/19/2017 - 06/30/2021	RO1	Co-I	9	National Institute of Mental Health	\$426,782.00	
<b>12.</b>	T32MH017168 - Training Program in Behavioral and Cognitive Neuroscience	07/01/2017 - 06/30/2019	TG	Mentor	0	National Institute of Mental Health	\$223,500.00	Mentor, no effort
<b>13.</b>	- Ultra-high field, network-based imaging of glutamatergic deficits in depressed youth	07/01/2017 - 06/30/2019	PG	PI	0	Institute for Translational Medicine and Therapeutics	\$50,000.00	Pilot grant, no effort
<b>14.</b>	R01MH107703-Supplement - Diversity supplement to study imaging markers of heterogeneity of irritability in youth	06/01/2017 - 07/01/2018	FG	PI	0	National Institute of Mental Health	\$58,140.00	
<b>15.</b>	S10OD023495 - Biomedical image computing and informatics cluster	04/01/2017 - 03/31/2022	PP	Co-I	0	Office of Research Infrastructure Programs	\$1,945,817.00	Infrastructure grant, no effort.
<b>16.</b>	- Investigating the impact of the microbiome on abnormalities of brain development associated with irritability in youth	04/01/2017 - 09/01/2018	PG	PI	0	Penn/CHOP Microbiome Center	\$50,000.00	
<b>17.</b>	BCS16-31550 - A mechanistic model of cognitive control	08/01/2016 - 07/31/2019	FG	Co-I	1	National Science Foundation	0	
<b>18.</b>	R01EB022573 - Pattern analysis of fMRI via machine learning and sparse models: Application to brain development	07/01/2016 - 03/31/2021	RO1	Co-I	9	National Institute of Biomedical Imaging and Bioengineering	\$328,704.00	
<b>19.</b>	R21MH106799 - Evolution of the linked architecture of network control and executive function In adolescence	03/15/2016 - 02/28/2019	FG	PI	8	National Institute of Mental Health	\$173,123.00	MPIs: Bassett (contact) & Satterthwaite
<b>20.</b>	R21MH106799-02S1 - Sex	03/15/2016 -	FG	PI	1	National Institute of	\$45,000.00	

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

If space is needed for more entries, use an additional sheet.

differences in network control: Administrative supplement	02/28/2019					Mental Health		
21. R01MH107703 - Longitudinal multi-modal neuroimaging of irritability in youth	09/01/2015 - 05/31/2019	RO1	PI	30		National Institute of Mental Health	\$378,227.00	Biobehavioral Research Award for Innovative New Scientists (BRAINS).
22. R01MH107235 - Multimodal brain maturation indices modulating psychopathology and neurocognition	08/01/2015 - 05/31/2018	RO1	Co-I	20		National Institute of Mental Health	\$338,486.00	
23. R01DA037289 - Multimodal imaging of progesterone / neurosteroid effects in nicotine addiction	02/01/2015 - 11/30/2019	RO1	Co-I	10		National Institute on Drug Abuse	\$399,261.00	
24. NNX14AM81G - Neurostructural, cognitive, and physiologic changes during a 1-year Antarctic winter-over mission	08/01/2014 - 07/31/2017	FG	Co-I	10		National Aeronautics and Space Administration	\$232,765.00	
25. - Flexible nonlinear modeling of normal and abnormal neurodevelopment in adolescence	06/01/2014 - 06/01/2015	PG	PI	0		Center for Biomedical Image Computing and Analytics	\$50,000.00	
26. - Resolving multidimensional trajectories of brain network architecture	04/01/2014 - 04/01/2015	PG	PI	0		Institute for Translational Medicine and Therapeutics	\$50,000.00	
27. R01MH101111 - Quantitative behavioral and imaging phenotypes of amotivation In schizophrenia	04/01/2013 - 03/31/2018	RO1	Co-I	8		National Institute of Mental Health	0	
28. K23MH098130 - Neuroimaging of dimensional reward dysfunction In adolescence	07/07/2012 - 04/30/2016	FG	PI	75		National Institute of Mental Health	\$180,000.00	
29. 17308 - Neuroimaging of reward systems in bipolar depression	07/15/2011 - 07/14/2014	PG	PI	10		National Alliance for Research on Schizophrenia and Depression	\$30,000.00	
30. - Common and divergent mechanisms of anhedonia across psychiatric disorders	07/01/2011 - 07/01/2013	PG	Co-I	0		UPenn Collaborative Neuroscience Center	\$50,000.00	
31. - Lilly psychiatric research fellowship	07/01/2010 - 05/31/2012	PG	PI	0		American Psychiatric Association	\$45,000.00	

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

*If space is needed for more entries, use an additional sheet.*

32. - APIRE/Janssen resident psychiatric research scholars program	10/01/2009 - 04/30/2012	PG	PI	0	American Psychiatric Association	\$2,500.00
--	----------------------------	----	----	---	-------------------------------------	------------

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants  
and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

*If space is needed for more entries, use an additional sheet.*

**CURRENT GRANT SUPPORT**

NAME: Theodore Daniel Satterthwaite, MD, MA

DEPARTMENT: Psychiatry

DATE: 08/01/2022

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category*</u>	<u>Role in Grant**</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>	<u>Additional Comments***</u>
1. R01EB031284 - Infant atlas of brain perfusion	09/20/2021 - 06/30/2025	RO1	Co-I	2	National Institute of Biomedical Imaging and Bioengineering	\$434,402.00	
2. K99MH127296 - Discovering prognostic neuroimaging biomarkers of the psychosis spectrum using network control theory	09/01/2021 - 08/31/2023	FG	Mentor	0	National Institute of Mental Health	\$101,646.00	
3. R01MH126699 - A community-driven development of the brain imaging data standard (BIDS) to describe macroscopic brain connections	08/06/2021 - 07/31/2023	RO1	Co-I	1	National Institute of Mental Health	\$227,950.00	
4. 2R01EB022573 - Personalized functional network modeling to characterize and predict psychopathology in youth	08/02/2021 - 04/30/2025	RO1	PI	20	National Institute of Biomedical Imaging and Bioengineering	\$402,122.00	
5. RF1MH121867 - NIPreps: Integrating neuroimaging preprocessing workflows across modalities, populations, and species	07/19/2021 - 07/18/2024	RO1	PI	3	National Institute of Mental health	\$481,917.00	MPIs: Esteban, Milham, Poldrack (contact), Rokem, & Satterthwaite
6. R37MH125829 - Precision mapping of individualized executive networks in youth	07/01/2021 - 04/30/2026	RO1	PI	20	National Institute of Mental Health	\$818,531.00	MPIs: Fair (contact) & Satterthwaite; selected for NIH MERIT award
7. - Heterogeneity in coupling of regional metabolism and local functional connectivity in youth with major depressive disorder	07/01/2021 - 06/30/2023	FG	Mentor	0	National Institute of Mental Health	0	NIH Loan Repayment Program
8. - Normative modeling of network control deficits in psychosis	07/01/2021 - 06/30/2023	PG	Mentor	0	Brain and Behavior Research Foundation	\$30,000.00	
9. U01DA055365 - Healthy brain and child development national	06/30/2021 - 06/30/2026	FG	Co-I	2	National Institute of Drug Abuse	\$616,086.00	

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

*If space is needed for more entries, use an additional sheet.*

consortium								
10. F31MH123063 - Personalized mapping of affective instability	06/16/2021 - 06/16/2024	FG	Mentor	0	National Institute of Mental Health	\$45,520.00	Mentor	
11. F31MH126569 - Brain network maturation and executive dysfunction spanning diagnostic categories of psychopathology	04/01/2021 - 04/01/2023	FG	Mentor	0	National Institute of Mental Health	\$46,036.00	Mentor	
12. - Personalized mapping of control network abnormalities associated with borderline spectrum symptoms in youth	01/01/2021 - 12/30/2023	PG	PI	1	AE Foundation	\$209,997.00		
13. - Delineating the Functional and Cognitive Consequences of Inter-Individual Differences in Brain Network Topography with Concurrent TMS-fMRI	09/01/2020 - 08/31/2023	FG	Mentor	0	National Science Foundation	\$46,000.00		
14. - Sex differences in functional network topography and externalizing symptoms	09/01/2020 - 08/31/2022	FG	Mentor	0	National Institute of Mental Health	0		NIH Loan repayment program
15. R01MH123550 - Harmonization of Multi-Site Neuroimaging Data from Complex Data from Complex Study Designs	06/01/2020 - 04/30/2024	RO1	Co-I	1	National Institute of Mental Health	\$373,920.00		Funded at 5% effort.
16. R01MH120811 - Individualized Closed Loop TMS for Working Memory Enhancement	09/01/2019 - 06/30/2024	RO1	Co-I	1	National Institute of Mental Health	\$454,116.00		Funded at 10% effort.
17. R01MH120482 - Reproducible imaging-based brain growth charts for psychiatry	07/01/2019 - 06/30/2024	RO1	PI	8	National Institute of Mental Health	\$499,500.00		MPIs: Satterthwaite (contact) & Milham. Funded at 10% effort.
18. NSF GRFP - Neuroimaging the gut-brain axis: Development of executive functioning in adolescence	05/01/2019 - 04/30/2022	FG	Mentor	0	National Science Foundation	\$48,833.00		Primary mentor for NSF Graduate Research Fellowship
19. RF1MH116920 - Network control and functional context: Mechanisms for TMS response	09/01/2018 - 08/31/2022	RO1	PI	7	National Institute of Mental Health	\$499,691.00		BRAIN Initiative award. MPIs: Oathes (contact) / Bassett / Satterthwaite. Funded at 15% effort.
20. T32NS105607 - Graduate training in neuroscience	07/01/2018 - 06/30/2023	TG	Mentor	0	National Institutes of Health	\$571,391.00		Mentor, no effort
21. R01MH113550 - Longitudinal	06/01/2018 -	RO1	PI	15	National Institute of	\$499,745.00		MPIs: Satterthwaite

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

If space is needed for more entries, use an additional sheet.

mapping of network development underlying executive dysfunction in adolescence	05/31/2023					Mental Health		(contact) & Bassett. Funded at 20% effort.
<b>22.</b> R01MH113565 - Adolescent neurodevelopment and impaired intrinsic motivation in psychosis risk	04/01/2018 - 03/31/2023	RO1	Co-I	5		National Institute of Mental Health	\$393,239.00	
<b>23.</b> - Systematic evaluation of neuroimaging as a biomarker for pain	02/25/2018 - 02/24/2022	FG	PI	2		Food and Drug Administration / ACTION	\$128,247.00	Funded at 15% effort, reduced to 2%.
<b>24.</b> R01MH112847 - Inter-modal coupling image analytics	05/10/2017 - 03/31/2023	RO1	PI	1		National Institute of Mental Health	\$275,581.00	MPIs: Shinohara (contact) & Satterthwaite. Funded at 20% effort. NCE.

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

*If space is needed for more entries, use an additional sheet.*

**PENDING GRANT SUPPORT**

NAME: Theodore Daniel Satterthwaite, MD, MA

DEPARTMENT: Psychiatry

DATE: 08/01/2022

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category*</u>	<u>Role in Grant**</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>	<u>Additional Comments***</u>
1. R01AG076832 - Multidimensional Approaches to Understanding Consequences and Mechanisms of Apathy in Frontotemporal Degeneration	12/01/2022 - 11/30/2027	RO1	Co-I	1	National Institute of Aging	\$336,100.00	
2. U24NS130411 - Neuroimaging Brain Chart Software Suite	12/01/2022 - 11/30/2027	PP	Co-I	3	National Institutes of Health	\$499,000.00	
3. R01MH112847 - Inter-modal Coupling Image Analytics	07/01/2022 - 06/30/2027	RO1	PI	15	National Institute of Mental Health	\$499,500.00	PIs: Shionhara (contact) & Satterthwaite. Renewal of R01MH112847.

\*For **Grant Category**, use code in bold from the following menu:

**RO1** NIH RO1  
**PP** NIH Program Project, Center or Core Grants  
**FG** Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)  
**FM** Fellowship (management)

**CT** Clinical Trials  
**TG** Training Grants  
**IG** Industrial Grants (including pharmaceutical)  
**PG** Private Foundation Grants (including internal Penn grants)  
**O** Other

\*\* For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

\*\*\* Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

*If space is needed for more entries, use an additional sheet.*