

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 10/08/2021

Theodore Daniel Satterthwaite, MD, MA

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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
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2012-2014	Instructor, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2013-Present	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
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Licensure:

2006	Pennsylvania
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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,

2008	University of Pennsylvania Perelman School of Medicine 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

National:

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, Journal of Clinical Psychiatry
2010-Present	Ad-hoc reviewer, Biological 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, Human Brain Mapping
2013-Present	Ad-hoc reviewer, Brain Connectivity
2014-Present	Ad-hoc reviewer, Cerebral Cortex
2014-Present	Ad-hoc reviewer, Neuron
2014-Present	Ad-hoc reviewer, American Journal of Psychiatry
2014-Present	Ad-hoc reviewer, Proceedings of the National Academy of Sciences
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, Current Opinion in Behavioral Sciences
2016-Present	Ad-hoc reviewer, Nature Communications
2016-Present	Ad-hoc reviewer, Cell Reports
2017-Present	Ad-hoc reviewer, eLife
2018-Present	Ad-hoc reviewer, PLOS Biology
2019-2020	Guest Editor, Biological Psychiatry
2019	Guest editor, eLife
2019-Present	Ad-hoc reviewer, Trends in Cognitive Science
2020-2021	Guest Editor, Developmental Cognitive Neuroscience

Academic and Institutional Committees:

2015-Present	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-Present	Psychiatric and Developmental Imaging Seminar Series (weekly seminar; series organizer)
2015-Present	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-Present	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-Present	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

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-present	"Practical pharmacology for bipolar disorder" - MS2/3 Psychiatry Clerkship
2010	"Inter-related affective and cognitive dysfunction in schizophrenia" - Department of Psychiatry Grand Rounds
2011-Present	"Introduction to psychiatric neuroimaging" - Psychiatry PGY1 Clinical Neuroscience Course
2011-Present	"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 Behdinan, 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
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-Present	"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-Present	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
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	Department of Psychiatry faculty mentoring committee for C. Alix Timko, PhD
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-Present	Neuroscience PhD thesis advisor for Adam Pines
2018-Present	Psychiatry research track mentor for Sheila Shanmugan, MD, PhD
2018-2020	Psychology PhD thesis committee for Sarah Clark at Georgia State University
2019-Present	Neuroscience PhD thesis committee chair for Ursula Tooley
2019-Present	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
2020-Present	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 dissertation committee for Andrew Chen
2020-Present	Biostatistics PhD dissertation committee for Sarah Weinstein
2020-Present	Biostatistics PhD dissertation 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 dissertation committee for Christopher Olm

2020-Present	Bioengineering PhD dissertation committee for Dushyant Sahoo
2020-Present	Department of Psychiatry faculty mentoring committee for Jason Jones, PhD
2021	Bioengineering rotation advisor for Chenying Zhao
2021-Present	Biostatistics PhD dissertation 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)

Lectures by Invitation (Last 5 years):

Jan, 2016	"Sex differences in the evolution of brain perfusion: Relevance for anxiety and mood disorders" - Annual Translational and Molecular Psychiatry Conference, Park City, Utah
Apr, 2016	"Understanding developmental psychopathology through abnormalities of brain development" - McGovern School of Medicine, University of Texas, Houston
May, 2016	"Elevated amygdala perfusion mediates developmental sex differences in trait anxiety" - Society of Biological Psychiatry, Atlanta, Georgia
May, 2016	"Common deficits, common circuits: Dimensional deficits of the executive & reward systems across psychiatric disorders" - Society of Biological Psychiatry, Atlanta, Georgia
Jun, 2016	"Mapping developmental psychopathology using multi-modal MRI" - Nathan Kline Institute, Old Orangeburg, New York
Jun, 2016	"Pediatric neuroimaging grows up: Large scale imaging initiatives to study the developing brain" - Organization of Human Brain Mapping, Geneva, Switzerland
Sep, 2016	"Using multi-modal imaging to understand the role of abnormal brain development for psychiatric illness" - Department of Psychiatry Grand Rounds, Vanderbilt University, Nashville, Tennessee
Sep, 2016	"Opportunities and challenges in big data for developmental neuroscience" - Flux Congress, St. Louis, Missouri
Oct, 2016	"The Philadelphia neurodevelopmental cohort: A resource for charting normal and abnormal brain development in youth" - American Academy of Child and Adolescent Psychiatry Annual Meeting, New York, New York
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 "Mapping heterogeneity across the lifespan using machine learning and multi-modal imaging" - Society of Biological Psychiatry, New York, New York
- May, 2018 "Development of brain modules and abnormalities associated with psychopathology" - Flux Congress Satellite, Chapel Hill, North Carolina
- 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 "Multi-modal imaging of brain development patterns associated with psychopathology" - National Neuroimaging Meeting, Centro de Investigación en Matemáticas, Guanajuato, Mexico
- Oct, 2019 "Motion artifact in functional connectivity" - National Neuroimaging Meeting, Centro de Investigación en Matemáticas, Guanajuato, Mexico
- 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
- 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

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

Dec, 2020 Program Committee, Annual Meeting of the American College of Neuropsychopharmacology
Virtual due to COVID-19

Apr, 2021 Associate Program Chair, Annual Meeting of the Society of Biological Psychiatry
Virtual Due to COVID 19

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, 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
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5. 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.
6. 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. Epub 2018 Jun 6.
7. 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.
8. 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. Epub 2017 Nov 1.
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 12. Chen R, Cui Z, Capitaio L, Wang G, Satterthwaite TD, Harmer C: Precision biomarkers for mood disorders based on brain imaging. BMJ 2020.
 13. 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 In Press, 2020.
 14. Kimmey BA, McCall NM, Wooldridge LM, Satterthwaite TD, Corder G: Engaging endogenous opioid circuits in pain affective processes. Journal of Neuroscience Research December 2020.
 15. 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.

16. 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. 2020.
17. Satterthwaite TD, Feczko E, Kaczkurkin AN, Fair DA: Parsing psychiatric heterogeneity through common and unique circuit-level deficits. Biological Psychiatry In Press, 2020.
18. 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 In Press, 2020.
19. 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 2021.
20. 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, 2021.

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.
3. Kimmey B, McCall N, Wooldridge L, Satterthwaite TD, Corder G: Engaging endogenous opioid circuits in pain affective processes Journal of Neuroscience Research. 2020.

Research Publications, non-peer reviewed:

[none]

Abstracts (Last 3 years):

1. Scott JC, Rosen AFG, Moore TM, Roalf DR, Satterthwaite TD, Calkins ME, Ruparel K, Gur, RE, and Gur RC: Cannabis use in youth is associated with limited alterations in brain structure. International Neuropsychological Society Annual Conference, New York, New York Feb 2018.

2. Jirsaraie RJ, Rush S, Kaczkurkin AN, Rosen AFG, Sotiras A, Ciric R, Cook PA, Elliott MA, Roalf DR, Bassett DS, Shinohara RT, Leibenluft E, Davatzikos C, Wolf DH, Satterthwaite TD: Accelerated cortical thinning within structural brain networks is associated with irritability in youth. Society of Biological Psychiatry, New York, New York May 2018.
3. Lydon-Staley DM, Ciric R, Gur RC, Gur RE, Satterthwaite TD, Bassett DS: Evaluation of confound regression strategies for the mitigation of motion artifact in studies of dynamic resting state functional connectivity. Association for Psychological Science, San Francisco, California 13: 2801-2826, May 2018.
4. Sharma A, Kaczkurkin AN, Moore TM, Beard LM, Ciric R, Shankar S, Baldassano CF, Rush S, Harowitz J, Rosen AFG, Cook P, Shinohara RT, Davatzikos C, Wolf DH, Satterthwaite TD: Dimensions of anhedonia associate with cortical network alterations across psychiatric disorders. Society of Biological Psychiatry, New York, New York May 2018.
5. Gu S, Ciric R, Gur RE, Gur RC, Satterthwaite TD, Bassett DS: Unifying modular and core-periphery structure in functional brain networks. Organization for Human Brain Mapping, Singapore Jun 2018.
6. Kaczkurkin AN, Nassar R, Xia C, Sotiras A, Pehlivanova M, Moore TM, Garcia de La Garza A, Roalf DR, Rosen A, Lorch S, Ruparel K, Shinohara RT, Davatzikos C, Gur RC, Gur RE, Satterthwaite TD: Premature birth is associated with structural brain network abnormalities across development. Organization for Human Brain Mapping, Singapore Jun 2018.
7. Lydon-Staley DM, Ciric R, Gur RC, Gur RE, Satterthwaite TD, Bassett DS: Evaluation of confound regression strategies for the mitigation of motion artifact in studies of dynamic resting state functional connectivity. American Psychological Association, San Francisco, California Aug 2018.
8. Bertolero M, Baum G, Satterthwaite TD, Bassett DS: Brain connectivity is modularly represented in the genome. Cognitive and Computational Neuroscience, Philadelphia, Pennsylvania Sep 2018.
9. Cornblath E, Ciric R, Baum G, Ruparel K, Moore T, Gur RC, Gur RE, Roalf D, Satterthwaite TD, Bassett DS: Structural support for brain state transitions that contribute to working memory. Cognitive and Computational Neuroscience, Philadelphia, Pennsylvania Sep 2018.

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.

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: 10/08/2021

<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. 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
5. 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	
6. 26356 - Mapping the development of anxiety In youth using mobile technology, multi-modal imaging, and multivariate analytics	01/15/2018 - 01/14/2021	PG	Mentor	0	Brain & Behavior Research Foundation	\$30,000.00	Primary mentor, no effort
7. - 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
8. 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
9. - Ultra-high field,	07/01/2017 -	PG	PI	0	Institute for Translational	\$50,000.00	Pilot grant, no effort

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RO1 NIH RO1
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If space is needed for more entries, use an additional sheet.

network-based imaging of glutamatergic deficits in depressed youth	06/30/2019					Medicine and Therapeutics		
10. 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	
11. - 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	
12. BCS16-31550 - A mechanistic model of cognitive control	08/01/2016 - 07/31/2019	FG	Co-I	1		National Science Foundation	0	
13. 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	
14. 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
15. R21MH106799-02S1 - Sex differences in network control: Administrative supplement	03/15/2016 - 02/28/2019	FG	PI	1		National Institute of Mental Health	\$45,000.00	
16. 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).
17. 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	
18. 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	
19. 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	
20. - Flexible nonlinear modeling	06/01/2014 -	PG	PI	0		Center for Biomedical	\$50,000.00	

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of normal and abnormal neurodevelopment in adolescence	06/01/2015				Image Computing and Analytics	
21. - 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
22. 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
23. 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
24. 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
25. - 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
26. - Lilly psychiatric research fellowship	07/01/2010 - 05/31/2012	PG	PI	0	American Psychiatric Association	\$45,000.00
27. - APIRE/Janssen resident psychiatric research scholars program	10/01/2009 - 04/30/2012	PG	PI	0	American Psychiatric Association	\$2,500.00

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CURRENT GRANT SUPPORT

NAME: Theodore Daniel Satterthwaite, MD, MA

DEPARTMENT: Psychiatry

DATE: 10/08/2021

<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	\$655,383.00	
5. RF1MH121867 - NIPreps: Integrating neuroimaging preprocessing workflows across modalities, populations, and species	07/19/2021 - 07/18/2024	RO1	MPI	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. - 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	
8. U01DA055365 - Healthy brain and child development national consortium	06/30/2021 - 06/30/2026	FG	Co-I	2	National Institute of Drug Abuse	\$616,086.00	
9. F31MH123063 - Personalized mapping of affective instability	06/16/2021 - 06/16/2024	FG	Mentor	0	National Institute of Mental Health	\$45,520.00	Mentor
10. F31MH126569 - Brain	04/01/2021 -	FG	Mentor	0	National Institute of	\$46,036.00	Mentor

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

network maturation and executive dysfunction spanning diagnostic categories of psychopathology	04/01/2023					Mental Health		
11. - 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	
12. - 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	
13. - Sex differences in functional network topography and externalizing symptoms	09/01/2020 - 08/31/2022	FG	Mentor	0		National Institute of Mental Health	0	
14. R01MH120482 - Reproducible imaging-based brain growth charts for psychiatry	07/01/2019 - 06/30/2024	RO1	PI	10		National Institute of Mental Health	\$499,500.00	MPIs: Satterthwaite (contact) & Milham.
15. 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
16. RF1MH116920 - Network control and functional context: Mechanisms for TMS response	09/01/2018 - 08/31/2022	RO1	PI	15		National Institute of Mental Health	\$499,691.00	BRAIN Initiative award. MPIs: Oathes (contact) / Bassett / Satterthwaite
17. K99MH117274 - Delineating neurobiological heterogeneity in internalizing symptoms using machine learning and deep phenotyping	07/01/2018 - 06/30/2023	FG	Mentor	0		National Institute of Mental Health	\$102,275.00	Primary mentor for K99 phase, no effort
18. T32NS105607 - Graduate training in neuroscience	07/01/2018 - 06/30/2023	TG	Mentor	0		National Institutes of Health	\$571,391.00	Mentor, no effort
19. 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
20. R01MH113550 - Longitudinal mapping of network development underlying executive dysfunction in adolescence	06/01/2018 - 05/31/2023	RO1	PI	20		National Institute of Mental Health	\$499,745.00	MPIs: Satterthwaite (contact) & Bassett
21. R01MH113565 - Adolescent neurodevelopment and impaired	04/01/2018 - 03/31/2023	RO1	Co-I	5		National Institute of Mental Health	\$393,239.00	

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intrinsic motivation in psychosis risk								
22. - 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%.	
23. - 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%	
24. 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		
25. R01MH112847 - Inter-modal coupling image analytics	05/10/2017 - 03/31/2022	RO1	PI	20	National Institute of Mental Health	\$275,581.00	MPIs: Shinohara (contact) & Satterthwaite.	
26. 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.	

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PENDING GRANT SUPPORT

NAME: Theodore Daniel Satterthwaite, MD, MA

DEPARTMENT: Psychiatry

DATE: 10/08/2021

<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>
<u>NONE</u>							

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** 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.