THEODORE D. SATTERTHWAITE, M.D. | CV OVERVIEW

Ted Satterthwaite is the McLure II Professor of Psychiatry at the Perelman School of Medicine at the University of Pennsylvania. He leads the Penn Lifespan Informatics and Neuroimaging Center (PennLINC), a multi-disciplinary center with an emphasis on developmental neuroscience, neuroinformatics, and translational psychiatry. PennLINC is critical hub for collaboration and arbitrage across fields as diverse as neuroscience, psychiatry, radiology, pediatrics, neurology, engineering, psychology, and data science.

Scholarship	>300 peer-reviewed publications; *h*-index 104
Recognition	Clarivate / Web of Science Highly Cited Researcher (2021-present), NIH MERIT Award (2021), Penn Post-Doctoral Mentor of the Year Award - finalist (2025), Multiple clinical teaching awards
Funding	Principal investigator of 12 lifetime R01s; four current NIH R01/R37 awards as PI/MPI (see below) Current annual direct costs across awards: ~$3.4M
Mentorship	14 alumni now lead independent laboratories Trainees have earned DP5, K99/R00 (*n*=4), K23, F31(*n*=4), and NSF (*n*=3) grants
Visibility	Invited lectures at Harvard, Yale, Columbia, WUSTL, Cambridge, OHBM, ACNP, SOBP

PRINCIPAL CONTRIBUTIONS

1. Hierarchical models of normative brain development

The sensorimotor-association axis (Sydnor Neuron 2021) is one of the most widely accepted frameworks of brain organization and development. Our recent efforts have revealed how developmental plasticity refine and reinforce this fundamental cortical hierarchy, with relevance for the development of cognition and emergence of psychopathology.

Selected papers (senior author): Sydnor et al., Neuron 2021; Larsen et al., Science Advances 2022; Baller et al., Cell Reports 2022; Sydnor et al., Nature Neuroscience 2023; Bagautdinova et al., Cell Reports 2023; Pines et al., Neuron 2023; Luo et al., Nature Communications 2024; Sydnor et al., Nature Neuroscience 2025, Luo et al., Nature Communications 2026.

2. Translational neuroimaging of psychopathology in youth

We have a longstanding program of using advanced neuroimaging to understand psychiatric illness in youth. Additionally, we have led the field in using advanced methods for describing person-specific functional networks; we have used these individualized networks to understand both psychopathology and variation in the development of executive function.

Selected papers (senior author): Cui et al., Neuron 2020; Pines et al. Nature Communications 2022; Shanmugan et al. PNAS 2022; Xia et al., Neuropsychopharmacology 2022; Keller et al., Nature Communications 2023; Cui et al., Biological Psychiatry 2023; Baller et al., Biological Psychiatry 2023; Shafiei et al., Biological Psychiatry 2024.

3. Neuroinformatics for reproducible human neuroimaging at scale

Our open-source software for curation, processing, and analysis of large multi-modal neuroimaging datasets are widely used and now considered field-standard -- broadening our impact beyond our empirical work. Tools like `QSIPrep` and `XCP-D` have been downloaded tens of thousands of times and have been adopted by major consortia. We use our software to create massive open datasets such as the Reproducible Brain Charts (RBC) resource, which has rapidly become one of the most widely used in the field (>5,000 downloads in past year).

Selected papers (senior author): Cieslak et al., Nature Methods 2021 (`QSIPrep`); Adebimpe et al., Nature Methods 2022 (`ASLPrep`); Covitz et al., NeuroImage 2022 (`CuBIDS`); Mehta, Salo et al., Imaging Neuroscience 2024 (`XCP-D`); Shafiei et al., Neuron 2025 (`RBC`).

SELECTED CURRENT SUPPORT

Grant	Scientific focus	Years	Annual Direct Cost
2R01MH113550	Association cortex plasticity and youth psychopathology	2018-2028	$500k
2R01MH112847	Inter-modal coupling image analytics	2022-2027	$500k
2R37MH125829	Personalized executive networks in youth (NIH MERIT)	2021-2031	$676k
3R01EB022573	Interpretable deep learning for brain development	2016-2029	$500k
ACTTION	A living meta-analysis of psychedelics for mental health	2024-2030	$300k

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 03/16/2026

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
2020-2022	Associate Professor of Psychiatry, University of Pennsylvania School of Medicine
2023-2025	McLure Associate Professor in Psychiatry & Behavioral Research II, University of Pennsylvania School of Medicine
2025-present	McLure Professor in Psychiatry & Behavioral Research II, 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
2020-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 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
2024-Present	Member, AI2D Center, University of Pennsylvania Perelman School of Medicine
2025-Present	Senior Fellow, Institute of Biomedical Informatics, University of Pennsylvania Perelman School of Medicine
2025-Present	Member, Genomics and Computational Biology Graduate Group, University of Pennsylvania Perelman School of Medicine

Specialty Certification:

2011	Diplomate, American Board of Psychiatry and Neurology

Licensure:

2006-Present	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	Janssen Research Scholar, American Psychiatric Institute for Research and Education
2008	Schizophrenia Conference Travel Award, Department of Psychiatry, University of Pittsburgh
2008	"Penn Pearls" Award for Medical Student Education, University of Pennsylvania Perelman School of Medicine
2008	Neuroleptic Malignant Syndrome Information Service New Investigator Award
2008	Health Emotion Institute Travel Award, University of Wisconsin
2009	Eli Lilly Resident Research Award, American Psychiatric Association
2009	Junior Investigator Travel Award, Society of Biological Psychiatry
2009	Junior Investigator Colloquium Travel Award, American Psychiatric Association
2010	Laughlin Award, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2010	Lilly Research Fellowship, American Psychiatric Institute for Research and Education
2011	NARSAD Young Investigator Award
2013	Albert Stunkard Faculty Recognition Award for Clinical Education, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine
2013	Young Investigator Travel Award, American College of Neuropsychopharmacology
2014	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	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
2021-Present	Clarivate / Web of Science Highly Cited Researcher
2025	Biomedical Post-doctoral Programs Mentor of the Year Award -- Shortlist Finalist

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)

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
2017-2025	American College of Neuropsychopharmacology (Member (2025-present), Associate Member (2017-2025), 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, 2022, 2023)
2018	Child Psychopathology and Developmental Disabilities (CPDD) Study Section, National Institute of Mental Health (Ad hoc member)
2019-2020	K99/R00 "Pathway to Independence" Special Emphasis Panel, National Institute of Mental Health (Member 2019 & 2020)
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
2024-Present	Ann S. Bowers Women's Brain Health Initiative (Chair, Cognitive Neuroscience Scientific Working Group)
2025	Career Development Awards Special Emphasis Panel, National Institute of Mental Health

Editorial Positions:

2009-Present	Ad-hoc reviewer, Journal of Neuroscience
2010-Present	Ad-hoc reviewer, Brain and Cognition
2010-Present	Ad-hoc reviewer, Journal of Clinical Psychiatry
2010-Present	Ad-hoc reviewer, Biological Psychiatry
2010-Present	Ad-hoc reviewer, NeuroImage
2010-Present	Ad-hoc reviewer, Psychopharmacology
2011-Present	Ad-hoc reviewer, Molecular Psychiatry
2012-Present	Ad-hoc reviewer, JAMA Psychiatry
2012-Present	Ad-hoc reviewer, Journal of the American Academy of Child and Adolescent Psychiatry
2013-Present	Ad-hoc reviewer, Human Brain Mapping
2013-Present	Ad-hoc reviewer, Brain Connectivity
2014-Present	Ad-hoc reviewer, American Journal of Psychiatry
2014-Present	Ad-hoc reviewer, Proceedings of the National Academy of Sciences
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, Biological Psychiatry: Cognitive Neuroscience and Neuroimaging
2015-Present	Ad-hoc reviewer, Neuropsychopharmacology

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-Present	Ad hoc reviewer, Nature Human Behavior
2019-Present	Guest editor, eLife
2019-2020	Guest Editor, Biological Psychiatry
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, Scientific Data
2021-Present	Ad hoc reviewer, Biological Psychiatry: Global Open Science
2022-Present	Editorial board, Developmental Cognitive Neuroscience
2022-Present	Ad hoc reviewer, Nature Neuroscience
2023-Present	Guest Editor, Proceedings of the Academy of Natural Sciences
2023-Present	Ad hoc reviewer, Nature
2023-Present	Ad hoc reviewer, PLOS Biology

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)
2017-2024	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)
2020-2024	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	Executive faculty 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
2024-Present	Data infrastructure workgroup chair, AI2D: Center for AI And Data Science For Integrated Diagnostics, University of Pennsylvania Perelman School of Medicine
2024	Faculty search committee member, Department of Psychaitry
2025-Present	School of Medicine Committee on Appointment and Promotions, University of Pennsylvania Perelman School of Medicine
2025-Present	Department of Psychiatry Committee on Appointment and Promotions, 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)
2009-2022	"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 Kaczkurkin, 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 (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 7510: 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
2017-2024	"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
2018-2023	Faculty mentorship committee for C. Alix Timko (Department of Psychiatry)
2018-2019	Department of Psychiatry faculty mentoring committee for Liisa Hantsoo, PhD
2018-2023	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
2018-2023	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
2019-2023	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
2020-2022	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
2020-2023	Biostatistics PhD thesis committee for Andrew Chen
2020-2023	Biostatistics PhD thesis committee for Sarah Weinstein

2020-2023	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
2020-2023	Bioengineering PhD thesis committee for Christopher Olm
2020-2022	Bioengineering PhD thesis committee for Dushyant Sahoo
2020-2023	Post-doctoral fellowship advisor for Erica Baller, MD
2020-2022	Post-doctoral fellowship advisor for Jacob Vogel, PhD
2020	"Data quality and motion artifact in neuroimaging" - BSTA 7510: Statistical Methods for Neuroimaging, Department of Biostatistics and Epidemiology
2021	Bioengineering rotation advisor for Chenying Zhao
2021-2023	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)
2021-2023	Research-track resident mentorship committee for Robert Seilheimer (Department of Psychiatry)
2021-Present	Faculty mentorship committee for Jason Jones (Department of Psychiatry)
2021-2024	Post-doctoral fellowship advisor for Arielle Keller, PhD
2021-2025	Neuroscience PhD thesis advisor for Audrey Luo (MSTP)
2021-2023	Bioengineering PhD thesis advisor for Chenying Zhao
2021	Neuroscience rotation advisor for Margaret Gardner
2021	Neuroscience rotation advisor for Margaret Pecsock
2021-2024	Bioengineering masters research advisor for Nob Premrudeepreechacharn
2021	Neuroscience rotation advisor for Audrey Luo
2022	Biostatistics PhD candidacy exam committee for Christina Chen
2022-2025	Bioengineering PhD thesis committee for Adam Rayfield
2022-Present	Faculty mentorship committee for Heather Nuske (Department of Psychiatry)
2022-Present	Bioengineering PhD thesis committee chair 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
2022-2023	Post-doctoral fellowship advisor for Sheila Shanmugan MD, PhD
2022	Neuroscience rotation advisor for Joelle Bagautdinova
2022-2023	Post-doctoral fellowship advisor for Hamsi Radhakrishnan, PhD
2022	Neuroscience rotation advisor for Kevin Sun
2022	Bioengineering PhD qualifying exam committee for Alfredo Lucas
2022-2024	Post-doctoral fellowship advisor for Taylor Salo, PhD

2022-Present	Post-doctoral fellowship advisor for Golia Shafiei, PhD
2022-Present	Neuroscience PhD thesis advisor for Joelle Bagautdinova
2022-2024	Neuroscience PhD thesis committee for Alfredo Lucas
2022-2025	Biostatistics PhD thesis committee for Fengling Hu
2022	"Data quality and motion artifact in neuroimaging" - BSTA 7510: Statistical Methods for Neuroimaging, Department of Biostatistics and Epidemiology
2022-Present	Neuroscience PhD thesis co-advisor for Kevin Sun (MSTP)
2022-20225	Psychiatry research track mentor for Elizabeth Flook, MD, PhD
2023	Neuroscience PhD candidacy exam chair for Margaret Gardner
2023	Faculty mentorship committee for Greg Corder (Department of Psychiatry)
2023	Neuroscience rotation advisor for Sabina London
2023-2024	"Translational biological psychiatry" - PSYC 7090 Special Topics in Clinical Psychology, Department of Psychology
2023-Present	Faculty mentorship committee for Birkan Tunc (Department of Psychiatry)
2023-2025	Genomics and computational biology PhD thesis committee for Jingxuan Bao
2023	Neuroscience rotation advisor for Marc Jaskir
2023	"Heterogeneity in biological psychiatry" - PSYC 7090 Special Topics in Clinical Psychology, Department of Psychology
2023-Present	Post-doctoral fellowship co-advisor for Isabella Stallworthy, PhD
2023-Present	Bioengineering PhD thesis committee chair for Ludwig Zhao
2024	Neuroscience PhD candidacy exam chair for Eren Kafadar
2024	"Understanding Childhood Psychopathology in the Context of Protracted Cortical Development" - Department of Child and Adolescent Psychiatry and Behavioral Sciences Grand Rounds, Children's Hospital of Philadelphia
2024-Present	Post-doctoral fellowship advisor for Laura Pritschet, PhD
2024-Present	Psychiatry research track mentor for Corey Horien, MD, PhD
2024	Neuroscience rotation advisor for Hannah Gura
2024-2025	Post-doctoral fellowship advisor for Parker Singleton, PhD
2024-Present	Neuroscience PhD thesis committee chair for Marc Jaskir
2024-Present	Neuroscience PhD thesis committee chair for Eren Kafdar
2024-Present	Biostatistics PhD thesis committee for Ryan Xie
2024-Present	External member of Clinical Psychology PhD thesis committee for Cleanthis Michael (University of Michigan)
2025-Present	Research-track resident mentorship committee for Luke Brier (Department of Psychiatry)
2025-Present	External member of Computer Science PhD thesis committee for Alexander Ratzan (New York University)
2025	Genomics and computational biology PhD candidacy exam committee for Liran Mao
2025-Present	Genomics and computational biology PhD thesis advisor for Briana Macedo

2025	Psychology PhD qualifying exam committee for Yufan he
2025	Neuroscience PhD candidacy exam committee for Emma Fisher
2025-Present	Biostatistics PhD thesis committee for Noah Hillman
2025-Present	Neuroscience PhD thesis committee for Emma Fischer

Lectures by Invitation (Last 5 years):

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, virtual presentation
Feb, 2021	"Charting brain development in youth with multi-modal imaging" - Neuroscience and Cognitive Science Colloquium, University of Maryland, virtual presentation
Feb, 2021	"Understanding psychiatric heterogeneity with neuroimaging and machine learning" - Frank Shobe Honorary Lecture, Department of Psychiatry Grand Rounds, Washington University in St. Louis, virtual presentation
Apr, 2021	"Large scale studies of the developing brain" - Center for Brain, Behavior, and Cognition, Penn State University, virtual presentation
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, virtual presentation
Jun, 2021	"Development of Association Cortices: _Normative Patterns and Implications for Psychopathology" - Keynote Lecture, Annual Meeting of the Organization of Human Brain Mapping, virtual presentation
Oct, 2021	"Understanding the Development of Executive Function in Youth" - Center for Vital Longevity, University of Texas, Dallas, virtual presentation
Nov, 2021	"Mapping the Developing Brain to Understand Psychopathology in Youth" - Department of Psychiatry Grand Rounds, Beth Israel Deaconess Medical Center, virtual presentation
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, virtual presentation
Dec, 2021	"Understanding Irritability with Machine Learning and Large-scale Neuroimaging" - American College of Neuropsychopharmacology, virtual presentation
Jan, 2022	"Scalable Studies of Individual-specific Behavior Using Mobile Phenotyping" - Functional Neuroimaging & Bioinformatics Lab, Department of Psychiatry, Harvard University, virtual presentation
Jan, 2022	"Reproducible Processing of fMRI data" - ABCD Analytics Group, University California, virtual presentation
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, virtual presentation
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, virtual presentation
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, virtual presentation
May, 2022	"Biomarker Potential of fMRI for Trials of Psychedelics: Methodological and Interpretive Considerations" - Annual Psychedelic Therapeutics and Drug Development Conference, virtual presentation
Sep, 2022	"Understanding Brain Development via Brain Organization" - Centre for the Developing Brain, Kings College London, virtual presentation
Oct, 2022	"Protracted Development of Association Cortices in Youth" - Department of Psychology Seminar Series, University of Michigan, Ann Arbor, Michigan
Mar, 2023	"Development of Macroscale Cortical Hierarchies in Youth" - Department of Psychiatry Grand Rounds, University of Southern California, Los Angeles, California
Apr, 2023	"Hierarchical Development of Cortical Plasticity" - Department of Psychiatry Grand Rounds, Mount Siani Health System, virtual presentation
Apr, 2023	"Linking Hierarchical Brain Development to Psychopathology in Youth" - Department of Psychiatry Grand Rounds, Mt. Siani Ichan School of Medicine, presented virtually
May, 2023	"Development of Cortical Hierarchies in Youth" - Neuroimaging Laboratories Seminar Series, Washington University in St. Louis, St. Louis, Missouri
Jul, 2023	"Translational Neuroimaging of Pain: Challenges and Opportunities" - Pain Short Course, University of Michigan, Ann Arbor, Michigan
Jul, 2023	"Linking Hierarchical Brain Development to Executive Function " - Max Plank School of Cognition, virtual presentation
Jul, 2023	"The Future of fMRI" - Annual Meeting of the Organization of Human Brain Mapping, Montreal, Canada
Jul, 2023	"Mapping Personalized Neuroanatomy in Youth" - Annual Meeting of the Organization of Human Brain Mapping, Montreal, Canada
Jul, 2023	"Embracing Open Code for Reproducible Neurocience" - Annual Meeting of the Organization of Human Brain Mapping, Montreal, Canada
Jul, 2023	"Development of Personalized Functional Networks in Youth" -

	Lifespan Network Neuroscience Conference, Montreal, Canada
Sep, 2023	"Linking Brain Development and Psychopathology in Youth" - Columbia University Department of Psychiatry T32 Seminar, virtual presentation
Oct, 2023	"AI in Brain Health" - Hot Topics in Neurology Annual Meeting, virtual presentation
Nov, 2023	"Adolescence as a Critical Period of Association Cortex Plasticity" - Harvard University Conte Center Symposium, virtual presentation
Mar, 2025	"Reproducible Brain Charts for Accelerating Translation" - Cambridge University "Making Connections" Seminar Series, virtual presentation
Mar, 2025	Ann Bower's Women's Brain Health Initiative Seminar Series, Roundtable Discussion
Feb, 2026	"Accelerating Discovery via Open and Reproducible Large Scale Imaging Data Resources" - Center for Biomedical Imaging Seminar, Medical University of South Carolina, Charleston, South Carolina

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	Breakout session moderator, NIH Blueprint for Neuroscience Research: Addressing Neuroimaging Challenges Across Populations and Settings Workshop 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	Program Committee, Flux Developmental Cognitive Neuroscience

	Congress Virtual due to COVID-19
Apr, 2021	Associate Program Chair, 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
Apr, 2022	Program Committee, Annual Meeting of the Society of Biological Psychiatry New Orleans, Louisiana
2022	Linda Speer Mid-Career Award Committee, Flux Congress Paris, France
Apr, 2023	Program Committee, Annual Meeting of the Society of Biological Psychiatry San Diego, California
Jul, 2023	Session Chair, Gradients of Brain Organization Montreal, Canada
Jul, 2023	Panel Discussant: "The Future of fMRI", Annual Meeting of the Organization of Human Brain Mapping Montreal, Canada
Jun, 2025	Organizing Committee, Gradients of Brain Organization Bordeaux, France
2026	Huttenlocher Award Committee, Flux Congress La Jolla, CA

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

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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

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20. 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.

21. 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.

22. Sydnor VJ, Satterthwaite TD: Neuroimaging of plasticity mechanisms in the human brain: from critical periods to psychiatric conditions. Neuropsychopharmacology August 2022.

23. Keller AS, Sydnor VJ, Pines A, Fair DA, Bassett DS, Satterthwaite TD.: Hierarchical functional system development supports executive function. Trends Cogn Sci Feb 2023.

24. Hu F, Chen AA, Horng H, Bashyam V, Davatzikos C, Alexander-Bloch A, Li M, Shou H, Satterthwaite TD, Yu M, Shinohara RT.: Image harmonization: A review of statistical and deep learning methods for removing batch effects and evaluation metrics for effective harmonization. Neuroimage 274: 120125, Jul 2023.

25. Larsen B, Sydnor VJ, Keller AS, Yeo BTT, Satterthwaite TD.: A critical period

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26. Linguiti S, Vogel JW, Sydnor VJ, Pines A, Wellman N, Basbaum A, Eickhoff CR, Eickhoff SB, Edwards RR, Larsen B, McKinstry-Wu A, Scott JC, Roalf DR, Sharma V, Strain EC, Corder G, Dworkin RH, Satterthwaite TD.: Functional imaging studies of acute administration of classic psychedelics, ketamine, and MDMA: Methodological limitations and convergent results. Neurosci Biobehav Rev Nov 2023.

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28. Fotiadis P, Parkes L, Davis KA, Satterthwaite TD, Shinohara RT, Bassett DS.: Structure-function coupling in macroscale human brain networks. Nat Rev Neurosci 2024.

29. Baller EB, Cooper EC, Schindler MK, Bar-Or A, Fox MD, Shinohara RT, Satterthwaite TD.: Depression as a disease of white matter network disruption: Learning from Multiple Sclerosis. Biol Psychiatry Nov 2025.

30. Michael C, Larsen B, Satterthwaite TD, Hyde LW.: Mapping interactions between adversity and neuroplasticity across development. Trends Cogn Sci Nov 2025.

31. Fotiadis P, Arnsten AFT, Parkes L, Satterthwaite TD, Shinohara RT, Bassett DS.: Biological substrates of structure-function coupling in brain networks. Neurosci Biobehav Rev 2026.

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.

5. Satterthwaite TD, Bagautdinova J.: Q&A with Ted Satterthwaite and Joëlle Bagautdinova. Cell Rep 43: 113659, Feb 2024.

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: 03/16/2026

Name of Grant	Period of Award	Grant Category*	Role in Grant**	% Effort	Funding Source	Current Annual Direct Cost	Additional Comments***
1. G-1022955 - Using person-specific networks to uncover sex differences in vulnerability to internalizing symptoms	09/01/2023 - 08/31/2024	PG	Mentor	0	Burroughs Welcome Foundation	$95,000.00	Primary mentor; second phase (2024-2028) of BWF is not mentored
2. - Linking sex differences in personalized networks and internalizing symptoms with machine learning	01/15/2023 - 01/14/2025	PG	Mentor	0	Brain and Behavior Research Foundation	$35,000.00	Primary mentor, NARSAD Young Investigator Award
3. 3L30MH131061 - Impact of adverse childhood experiences on brain network topography and executive dysfunction	07/01/2022 - 06/30/2025	FG	Mentor	0	National Institute of Mental Health	$8,500.00	Primary mentor, NIH Loan Repayment Program. Renewed 2023 + 2024.
4. K99MH127293 - Brain iron as a neurodevelopmental mechanism for transdianostic executive dysfunction	04/01/2022 - 08/31/2023	FG	Mentor	0	National Institute of Mental Health	$101,750.00	Primary mentor for K99 phase
5. - Personalized mapping of control network abnormalities associated with borderline spectrum symptoms in youth	01/01/2022 - 12/30/2025	PG	PI	1	AE Foundation	$288,062.00	
6. 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	Mentors: Bassett & Satterthwaite
7. 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	3	National Institute of Mental Health	$227,950.00	
8. RF1MH121867 - NIPreps: Integrating neuroimaging preprocessing workflows across	07/19/2021 - 07/18/2025	RO1	PI	5	National Institute of Mental health	$481,917.00	MPIs: Esteban, Milham, Poldrack (contact), Rokem, & Satterthwaite.

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

modalities, populations, and species							NCE.
9. 4L30MH127652 - Evaluating white matter network disruption in depression: using multiple sclerosis as a model	07/01/2021 - 06/30/2025	FG	Mentor	0	National Institute of Mental Health	$50,000.00	Primary mentor, NIH Loan Repayment Program. Renewed 2022, 2023, and 2024.
10. NARSAD YIA - 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	Mentor, NARSAD Young Investigator Award
11. F31MH123063 - Personalized mapping of affective instability	06/16/2021 - 08/16/2022	FG	Mentor	0	National Institute of Mental Health	$45,520.00	Primary mentor
12. 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	Mentors: Bassett & Satterthwaite
13. NSF GRFP - 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	Primary mentor for NSF Graduate Research Fellowship
14. - 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	
15. 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.
16. R01MH120482 - Reproducible imaging-based brain growth charts for psychiatry	07/01/2019 - 06/30/2025	RO1	PI	1	National Institute of Mental Health	$499,500.00	MPIs: Satterthwaite (contact) & Milham. Funded at 10% effort. NCE.
17. 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	
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. - Reducing delay discounting	04/01/2019 -	PG	Co-I	5	AE Foundation	$765,386.00	

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and selfishness with excitatory transcranial magnetic stimulation of the temporoparietal junction	06/30/2021						
20. UH3NS103446 - Responsive Neurostimulation for Loss of Control Eating	03/15/2019 - 08/31/2025	PP	Co-I	1	National Institute of Neurological Disorders and Stroke	$1,442,876.00	
21. RF1MH116920 - Network control and functional context: Mechanisms for TMS response	09/01/2018 - 08/31/2023	RO1	PI	15	National Institute of Mental Health	$499,691.00	BRAIN Initiative award. MPIs: Oathes (contact) / Bassett / Satterthwaite.
22. T32NS105607 - Graduate training in neuroscience	07/01/2018 - 06/30/2023	TG	Mentor	0	National Institutes of Health	$571,391.00	Mentor, no effort
23. 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
24. 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
25. 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
26. 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	
27. 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	
28. - Comprehensive evaluation of neuroimaging biomarkers for pain	02/25/2018 - 06/30/2024	FG	PI	1	ACTTION	$120,000.00	
29. 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 and Behavior Research Foundation	$30,000.00	Primary mentor, NARSAD Young Investigator Award
30. - Mapping affective	01/02/2018 -	PG	PI	1	AE Foundation Research	$108,000.00	Funded at 20% effort,

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instability in youth using mobile phenotyping and multi-modal neuroimaging	01/01/2022						reduced to 1%
31. - 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
32. 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	
33. 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
34. - 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
35. 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	
36. 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.
37. 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.
38. - 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	
39. BCS16-31550 - A mechanistic model of cognitive control	08/01/2016 - 07/31/2019	FG	Co-I	1	National Science Foundation	0	
40. 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	
41. 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

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42. 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	
43. 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).
44. 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	
45. 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	
46. 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	
47. - 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	
48. - 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	
49. 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	
50. 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	
51. 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	
52. - 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	
53. - Lilly psychiatric research fellowship	07/01/2010 - 05/31/2012	PG	PI	0	American Psychiatric Association	$45,000.00	

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54. - 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: 03/16/2026

Name of Grant	Period of Award	Grant Category*	Role in Grant**	% Effort	Funding Source	Current Annual Direct Cost	Additional Comments***
1. - Neurodevelopmental Plasticity as a Window Into Adversity-Related Mental Health Challenges in Youth	01/01/2026 - 12/31/2028	FG	Primary Mentor	0	DFG - Walter Benjamin Programme	$55,000.00	German post-doctoral research fellowship
2. - Generalizable Growth Charts of Thalamocortical Development in Early Childhood	11/01/2025 - 10/30/2026	PG	Primary mentor	0	Hartwell Foundation	$50,000.00	
3. 2507497 - Characterizing Links Between Childhood Environment and Cortical Neuroplasticity Across Adolescence	08/25/2025 - 08/24/2027	FG	Primary Mentor	0	National Science Foundation	$80,000.00	NSF Post-doctoral Research Fellowship
4. F31MH136685 - The role of sleep in neurodevelopmental plasticity and emotion dysregulation in youth	09/01/2024 - 08/31/2027	FG	Primary mentor	0	National Institute of Mental Health	$49,538.00	
5. R01MH134896 - Radiomics for Clinically-Acquired Brain MRIs of Youth with Neurodevelopmental Disorders	07/08/2024 - 05/31/2029	RO1	Site-PI	5	National Institute of Mental Health	$502,613.00	
6. - A living synthesis of clinical trials of psychedelics for mental health	07/01/2024 - 06/30/2030	FG	PI	1	ACTTION	$300,000.00	
7. - Understanding the impact of environment on brain development	07/01/2024 - 06/30/2026	PG	MPI	1	Spring Point Partners LLC	$50,000.00	
8. R01MH123550 - Harmonization of Multi-Site Neuroimaging Data from Complex Data from Complex Study Designs	05/01/2024 - 04/30/2029	RO1	Co-I	5	National Institute of Mental Health	$373,920.00	Funded at 5% effort. Renewed 2024.
9. K00 AG079790 - Elucidating the role of endocrine aging as a risk factor for Alzheimer's Disease	05/01/2024 - 04/30/2028	FG	Primary mentor	0	National Institute of Aging	$70,514.00	
10. 31319 - Understanding network mechanisms of anxiety using multiple sclerosis	01/15/2024 - 01/14/2026	PG	Mentor	0	Brain and Behavior Research Foundation	$35,000.00	Primary mentor, NARSAD Young Investigator Award

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11. R01MH133843 - Precision brain charts for imaging genomics of schizophrenia and the psychosis spectrum	07/01/2023 - 06/30/2028	RO1	Co-I	4	National Institute of Mental Health	$490,550.00	
12. K23MH133118 - Depression as a disease of network disruption: learning from multiple sclerosis	07/01/2023 - 06/20/2028	FG	Mentor	0	National Institute of Mental Health	$180,500.00	Primary mentor
13. R01MH132934 - The Genetics of Personalized Functional MRI Networks	04/01/2023 - 03/31/2028	RO1	Co-I	4	National Institute of Mental Health	$400,000.00	
14. 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	
15. U24NS130411 - Neuroimaging Brain Chart Software Suite	12/01/2022 - 11/30/2027	PP	Co-I	2	National Institutes of Health	$499,000.00	
16. 2R01MH112847 - Inter-modal Coupling Image Analytics	09/01/2022 - 08/31/2027	RO1	PI	11	National Institute of Mental Health	$499,500.00	PIs: Shionhara (contact) & Satterthwaite; renewed 2022.
17. - Neuroinformatics for the Healthy Brain and Cognitive Development Study	03/01/2022 - 06/03/2028	PG	PI	1	The Regents of the University of Minnesota	$95,051.00	Subcontract from UMN for HBCD image processing software (QSIPrep, XCP-D)
18. R01EB031284 - Infant atlas of brain perfusion	09/20/2021 - 06/30/2025	RO1	Co-I	3	National Institute of Biomedical Imaging and Bioengineering	$434,402.00	
19. R37MH125829 - Precision mapping of individualized executive networks in youth	07/01/2021 - 04/30/2026	RO1	PI	20	National Institute of Mental Health	$676,170.00	MPIs: Fair (contact) & Satterthwaite, NIH MERIT award for long term funding support; eligible for administrative renewal in 2026.
20. U01DA055365 - Healthy brain and child development national consortium	06/30/2021 - 06/30/2026	FG	Co-I	3	National Institute of Drug Abuse	$616,086.00	
21. 4L30MH124102 - Sex differences in functional network topography and externalizing symptoms	07/01/2020 - 06/30/2026	FG	Mentor	0	National Institute of Mental Health	$48,102.00	Primary mentor, NIH Loan Repayment Program. Renewed 2022, 2023, 2024, and 2025
22. 2R01MH113550 - Linking the Development of Association	06/01/2018 - 08/31/2028	RO1	PI	13	National Institute of Mental Health	$499,999.00	PIs: Satterthwaite (contact) & Bassett.

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

RO1	NIH RO1	**CT**	Clinical Trials
PP	NIH Program Project, Center or Core Grants	**TG**	Training Grants
FG	Federal Grants - Other (including other NIH grants and grants from VA, NSF, Dept. of Energy, etc.)	**IG**	Industrial Grants (including pharmaceutical)
		PG	Private Foundation Grants (including internal Penn grants)
FM	Fellowship (management)	**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.

Cortex Plasticity to Trans-Diagnostic Psychopathology in Youth							Renewed 2023.
23. 3R01EB022573 - Interpretable Deep Learning for Analyzing Brain Development Heterogeneity with Personalized Functional Networks Across Multi-Site Data	08/02/2016 - 04/30/2029	RO1	PI	10	National Institute of Biomedical Imaging and Bioengineering	$499,995.00	PIs: Fan (contact) and Satterthwaite; renewed 2021 and 2025

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RO1	NIH RO1
PP	NIH Program Project, Center or Core Grants
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If space is needed for more entries, use an additional sheet.

PENDING GRANT SUPPORT

NAME: Theodore Daniel Satterthwaite, MD, MA DEPARTMENT: Psychiatry DATE: 03/16/2026

Name of Grant	Period of Award	Grant Category*	Role in Grant**	% Effort	Funding Source	Current Annual Direct Cost	Additional Comments***
1. R01AG088196 - Lifespan models of cerebral blood flow for vascular aging and Alzheimer's Disease	12/01/2026 - 11/30/2031	RO1	PI	10	National Institute of Aging	$524,312.00	PIs: Satterthwaite (contact) & Detre. A1 application; A0 scored at 19%.
2. - Generalizable Growth Charts of Thalamocortical Development in Early Childhood	07/01/2026 - 06/30/2031	FG	Primary Mentor	0	National Institute of Child Health and Human Development	$95,000.00	
3. R01MH120482 - Reproducible imaging-based brain growth charts for psychiatry	07/01/2026 - 06/30/2031	RO1	PI	15	National Institute of Mental Health	$500,000.00	A1 of renewal application; A0 scored at 12%
4. - Mapping Person-Specific and Spatially Precise White Matter Development to Transdiagnostic Psychopathology and Polygenic Risk	07/01/2026 - 06/30/2029	FG	Primary mentor	0	National Institute of Mental Health	$50,000.00	
5. - Optimizing MRI Acquisition for Studies of Change	06/01/2026 - 05/30/2029	PG	PI	5	Sergey Brin Family Foundation	$550,000.00	
6. R37MH125829 - Precision mapping of individualized executive networks in youth	05/01/2026 - 04/30/2031	RO1	PI	20	National Institute of Mental Health	$500,000.00	NIH MERIT award -- second segment; requires administrative approval only

*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.)
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