

Vijay Anand Mittal

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Northwestern University
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Research Interests: motor function and dysfunction in serious mental illness; neurodevelopmental models; stress biology; cognitive affective neuroscience; transdiagnostic approaches; individualized medicine; task and assessment construction and development.

Employment

- 2023 – Present* Chair, Department of Psychology
Northwestern University
- 2025– Present* Director, Institute for Adolescent Mental Health and Well Being
Northwestern University
- 2021 – Present* David S. Holmes Professor of Brain Science
Department of Psychology
Department of Psychiatry (secondary)
Department of Medical Social Sciences (secondary)
Department of Linguistics (secondary)
Northwestern University
- 2017-2025* Co-Director
Institute for Innovations in Developmental Sciences (DevSci), Training Core
Northwestern University
- 2024 – Present* Faculty Associate
Center for Psychiatric Neuroscience
Northwestern University
- 2021 – Present* Faculty Associate
Cognitive Science
Northwestern University
- 2016 – Present* Faculty Associate
Institute for Policy Research (IPR)
Northwestern University
- 2016 – Present* Preceptor
Northwestern University Interdepartmental Neuroscience (NUIN)
Northwestern University
- 2018 – 2021* Associate Professor

AT&T Research Chair
Department of Psychology
Northwestern University

- 2015 – 2018 Assistant Professor
Department of Psychology
Northwestern University
- 2015-2019 Adjunct Professor
University of Colorado at Boulder
Department of Psychology and Neuroscience
- 2010 – 2015 Assistant Professor
University of Colorado at Boulder
Department of Psychology and Neuroscience
- 2010 – 2015 Faculty Member
University of Colorado at Boulder
Center for Neuroscience

Educational Background and Qualifications

- 2014-Present Licensed Clinical Psychologist, Illinois #071.0100636; Colorado #psy.0004100
- 2008 – 2010 Postdoctoral Fellowship
University of California Los Angeles
Clinical Neuroscience Lab
Training Program in Clinical Research in Schizophrenia and Mood Disorders
Department of Psychology
- 2007- 2008 APA Approved Internship in Clinical Psychology
University of California Los Angeles
Adolescent Serious Mental Illness Track
Department of Psychiatry and Bibehavioral Sciences
- 2008 Ph.D., Clinical Psychology
Emory University
Department of Psychology
- 2004 M.A., Psychology
Emory University
Department of Psychology
- 2001 B.A. Psychology
University of California Santa Barbara
Graduated: *magna cum laude*

Pre-doctoral Academic Honors

Smadar Levin Award, honorable mention, Society for Research in Psychopathology, September 2009
National Institute of Mental Health (NIMH), Ruth Kirschstein National Research Service Award (NRSA), T32-MH14584-33, 2008-2010
Staglin Family Intern in Adolescent Serious Mental Illness, 2007-2008
National Science Foundation (NSF) Research and Teaching Award, 2006-2007
Emory University, Psychological Center Research Award, 2006-2007
Georgia Psychological Association; Division G (Adolescent and Child Psychology), Presentation Award, 2006

Honors and Recognitions

Lawrence H. Cohen Outstanding Mentor Award, Society for a Science of Clinical Psychology, 2026
Northwestern University Canvas Hall of Fame (electronic curriculum development), 2025
Society for Research in Psychopathology, President, 2025-2026
Laney Distinguished Alumni Award, Emory University, 2024
Inaugural ScholarGPS, Highly Ranked Scholar , [2024](#), [2025](#)
Big-Ten Academic Alliance (BTAA) Academic Leadership Program, ALP, Fellow, 2023-2024
Sigma Xi, Scientific Research Honors Society, 2024, Accepted Nomination
Faculty Honor Roll- Mentorship- Office of Undergraduate Research 2022, Northwestern
David S. Holmes Professor of Brain Science, Endowed Chair, 2022 - Present
AT&T Research Chair, 2018-2021
Association for Psychological Science Fellow (APS) 2017- Present
UC Davis ERP Boot-Camp Fellowship, 2017
Brain and Behavior Research Foundation, Independent Investigator, 2017
Early Career Award, Society for Research in Psychopathology (SRP), 2016
Early Career Impact Award, Federation of Associations in Behavioral and Brain Sciences (FABBS), 2016
Face of the Future Symposium Presenter, Society for Research in Psychopathology, 2014
Outstanding Faculty Research Award, University of Colorado Boulder, Department of Psychology and Neuroscience, 2014
National Institute of Health (NIH) Biobehavioral Research Awards for Innovative New Scientist (BRAINS) Recipient, 2011
National Institute of Health (NIH), Clinical Research Loan Repayment Program (LRP) Award, 2009-2011, 2011-2012

Professional Associations

FLUX, 2025
Society for the Science of Clinical Psychology, 2025
American Association for the Advancement of Science, 2025
Sigma Xi, Scientific Research Honors Society, 2024-present
Society for Biological Psychiatry, 2016-present
Northwestern University Interdepartmental Neuroscience, 2016-present
Institute for Policy Research, Northwestern University, 2016-present

Schizophrenia International Research Society (SIRS), 2013
Eastern Psychological Association (EPA), 2012
International Graphonomics Society, 2011
Center for Neuroscience, University of Colorado at Boulder, Member, 2010-present
International Early Psychosis Association (IEPA), 2010
Society for Research in Psychopathology (SRP), 2002-present
Association for Psychological Science (APS), 2002-present
American Psychological Association (APA), 2006-present
National Society of Colligate Scholars, 2001-present
Psi Chi, National Honor Society in Psychology, 2001-present
Phi Beta Kappa, 2001-present
University of California Golden Key, 2001-present

Leadership Experience

- 2010-Present* Principal Investigator, [Adolescent Development and Preventive Treatment \(ADAPT\) Program](#): I founded and direct a leading psychosis research lab (rated as one of the most productive and impactful in the field, [2nd globally](#)), which includes management of a dozen employees, as well as graduate, postdoctoral and undergraduate research assistant students. The lab has garnered competitive extramural funding, and my role involves managing large budgets, directing strategic planning, management of several complex multisite clinical and human neuroscience-based grants and dissemination of findings.
- 2025-Present* Director, [Institute for Adolescent Mental Health and Well Being](#). I am the founding director of a new institute, supported by more than 25 million dollars in philanthropic support, designed to study and implement multidisciplinary approaches (psychology, psychiatry, marketing, digital health, biostatistics, cancer, HIV prevention, human development and social policy) to understand and intervene in challenges faced by adolescents during the transition to young adulthood. I played the primary role in conceptualizing, successfully engaging donors, launching and branding this effort and am now working to grow and broaden our initiatives and impact. This Institute is unique as it aims to translate empirical approaches to direct interventions with the most pressing problems faced by adolescents transitioning into young-adulthood (e.g., loneliness and isolation, disillusionment, imposter syndrome, social anxiety, suicidality). To accomplish this goal, we pair the work from researchers engaged in the most cutting-edge work in this area with a dynamic partnership with student services on the Northwestern campus, allowing us to host speakers, workshops and summits, conduct trainings, and implement and study interventions to support the mental health and well-being of the students at the University. The Institute includes 20 faculty fellows as well as a team of dedicated staff, and supports graduate and postdoctoral trainees, all working on collaborative projects to address this need. The institute also hosts prestigious international awards, engages in forward-facing policy work (collaborating on white-papers and interacting with policy makers), and holds a biyearly summit, where global thought leaders and innovators present work, discuss issues, and develop new initiatives.

- 2023-Present* [Chair, Department of Psychology](#): Northwestern University. The Department, ranked 9th in the world, consists of 5 areas (Clinical, Cognitive and Developmental, Social, Brain Behavior and Cognition, and Personality and Health Psychology) and includes 36 tenure track, 7 teaching, and 5 research faculty, a staff of a dozen, as well as 60 graduate students and 20 postdoctoral fellows. In addition to the doctoral program, the Department runs the 3rd largest undergraduate major on campus (from a total of 33 departments) and generates a significant body of research each year. I am involved in every aspect of running and growing the department, setting up and maintaining cutting-edge research facilities (as well as renovation and building beautification), building curriculum, insuring a safe and strong community and implementing a strategic vision. In the last few years I have worked successfully to reinvigorate community following a post pandemic withdraw (developing common spaces, initiating and guiding a departmental history project, building community events, instituting policies and incentives to encourage in-person involvement), usher in graduate unionization, revitalize the building (managing several common area and lab renovation projects), engage donors (with donations exceeding 25 million over the past 3 years; [example](#)), maintain and renew accreditations, maintain departmental productivity and enthusiasm in the face of recent funding challenges, revamp a highly rated statistics certificate and curriculum program, and build a new cross-cutting area of emphasis for the department in the area of Political Psychology.
- 2025-Present* Society for Research in Psychopathology ([SRP](#)), President. SRP is the premier academic society for psychopathology research, and as President Elect, I will be tasked with working with the current president, and then taking on the President position in the following year. These roles involve administrating and officiating the annual conference (involving 700 leading psychopathology researchers) and in addition to fund raising, driving efforts to build on the vision and role and goals of the society for years to come.
- 2015-Present* Multi-site NIMH funded grant Leadership: I have lead or co-lead several multisite studies over the past few years including the 8.1 million dollar (direct cost) CAPR project, a 7-site project (Temple, Yale, MPRC, Emory, UGA, UCI, Northwestern), designed to develop a battery for assessing vulnerability to psychosis based on mechanistically sensitive and computationally derived measures.
- 2016-2025* Co-Director: Training Core, Institute for Innovations in Developmental Sciences ([DevSci](#)): An innovative and dynamic institute that cuts across colleges and the medical school, including numerous faculty dedicated to incorporating developmental science into the pressing questions of the day. I have directed the training core, which involves the development and implementation of a training certificate, implementation of a training grant, as well as managing training and strategic growth of the body of our student members (including medical interns, graduate students, and postdoctoral fellows).
- 2015-Present* Diversity, Equity and Inclusion (DEI) leadership; I have had the privilege to participate in several initiatives aimed at improving DEI at the departmental, University, and both national and international levels. I am an active member of the departmental diversity and inclusion committee and in this context I have worked in

a team of dedicated members to secure grants, build a popular Diversity Science Graduate Training Certificate and Diversity Science [Salon](#), establish a permanent departmental diversity science [postdoctoral position](#), and direct a “[Sneak Peek](#)” event (i.e., annual 2-day event hosting potentially applicants that designed to encourage and facilitate more applications to graduate school from diverse candidates). I have also served in the Brain, Mind, and Behavior Scientific Neighborhood group of the NIH FIRST Grant funded, [Northwestern University Recruitment to Transform Under-Representation and achieve Equity](#) (NURTURE) program, helping to recruit and review applicants and to plan for departmental placement. In addition I have directed the Diversity Committee for the Society for Research in Psychopathology (SRP; a premier International psychopathology society), and during my term, made significant inroads to increase the [depth and scope](#) of our work in this area. Finally, in addition to this work, I have published several impactful empirical and op-ed and editorial pieces highlighting consideration or diversity and individual differences in psychopathology and placing a critical light on how consideration for diversity is being employed in emerging fields such as big data, artificial intelligence, and [machine learning](#).

2023-2024 Fellow, [Big 10 Academic Alliance](#) (BTAA), Academic Leadership Program: An intensive year-long training program is seen as an immersive and multifaceted experience covering academic leadership skills.

2010-Present Mentorship: I have mentored a number of talented scholars and to date 12 have secured positions in tenure track positions in top psychology and psychiatry programs (e.g., Harvard, University of Oregon, Michigan State, UNC Chapel Hill, Duke). I have supervised a several graduate, postdoctoral and junior faculty research projects and several mentees have won prestigious grants and early career awards (e.g., BBRF, SIRS Early Career, SRP rising Star). I also have served as a proctor, or held other leadership roles (e.g., steering and advisory committees) on several T32 grants, and also put together training programs focused on promoting mentorship opportunities for marginalized scholars (e.g., DevSci, SRP).

2010-Present National Academic Leadership: I have played roles in the executive committees and advisory panels for leading academic societies and institutes (e.g., NIH RDoC, Developmental Psychopathology and Terminology Consensus Advisory Panels as well as Standing Review Panels for NIH and Wellcome Trust, SAMHSA Illinois CHR and SAMHSA National Training and Technical Assistance Center for Early Mental Illness Consensus Panels) as well as innovative and federally funded training programs. Details of this work are highlighted in the following sections.

2025-Present WCAS Science Chair Advisory Board: I participate in a weekly group of four science chairs to help advise the Dean’s office on how challenges to federal funding were impacting the community, and to help develop and implement solutions.

Appointed Editorial Positions

Associate Editor:

2019-Present *Journal of Psychopathology and Clinical Science* (formally *Journal of Abnormal Psychology*)
Editorial Fellow Mentor (2022-Present): Sonia Bansal, Jessica Hua
2023-Present *Schizophrenia Bulletin* (managing editor 20-23)

Consulting Editor:

2020-Present *Psychological Review*
2014-2019 *Journal of Abnormal Psychology*
2017-2019 *Schizophrenia Bulletin*

Guest Editor:

Journal of Psychopathology and Clinical Science (2024): Managing Clinical Heterogeneity in Psychopathology: Perspectives from Brain Research
Schizophrenia Bulletin, Themed Issue (2022): Motor symptoms are important for identifying, treating, and understanding serious mental illness.
Schizophrenia Research, Special Section (2020): Embracing heterogeneity creates new opportunities for understanding and treating those at clinical high-risk for psychosis (co-editor Jean Addington)
Schizophrenia Bulletin, Special Issue (2019): Motor Development Collection
Schizophrenia Research, Special Issue (2018): The biological stress system in schizophrenia (co-editor Elaine Walker)
Journal of Ethics in Mental Health, Special Issue (2018): Prevention and detection of serious mental illness: The Ethics of Prediction

Ad Hoc Reviewer:

Journal of the American Academy of Child and Adolescent Psychiatry
The Lancet Psychiatry
Schizophrenia Bulletin
Human Brain Mapping
Psychological Medicine
Journal of Abnormal Psychology
Cortex
Clinical Psychology Review
Psychiatric Services
American Journal of Psychiatry
Archives of General Psychiatry/JAMA Psychiatry
Psychiatry and Clinical Neuroscience
Clinical Psychology: Science and Practice
Journal of Clinical Psychiatry
Psychiatry Research
Social Psychiatry and Psychiatric Epidemiology
Progress in Neuro-psychopharmacology and Biological Psychiatry
Public Library of Science (PLoS ONE)
Development and Psychopathology
Biological Psychiatry
Biological Psychiatry: CNI
Journal of Psychiatric Research
Psychoneuroendocrinology

European Psychiatry
Comprehensive Psychiatry
Psychiatry Research: Neuroimaging
British Journal of Psychiatry
The Journal of Psychiatric Research
Acta Psychiatrica Scandinavica
Schizophrenia Research

Grant and Award Review:

2022, 2025 Grawemeyer Award Expert Panel Member
 2025-2026 Wellcome Trust, Committee Member, Mental Health Award: Leveraging longitudinal data to transform early intervention in mental health
 2024-2025 NIMH, Adult Lifespan Psychopathology Study Section (ALP), Standing Panel Member
 2021-2024 NIMH Adult Psychopathology and Disorders of Aging (APDA), Standing Panel
 2020 NIMH APDA, **ZRG1 BBBP-S 60 C**
 2019 NIMH Special Emphasis Panel- Neural basis of psychopathology, addiction and sleep disorders study section, **ZRG1 BDCN J 02**
 2018 NIMH Special Emphasis Panel- Neural basis of psychopathology, addiction and sleep disorders study section, **ZRG1 BDCN J 02**
 2018 NIMH Special Emphasis Panel- Career Development and Fellowships in Mental Health Services Panel, **ZMH1 ERB-I**
 2017 NIMH Biobehavioral Research Awards for Innovative New Scientists - **BRAINS** award review panel
 2016 NIMH Special Emphasis Panel, Memory, Cognition, and Attention, **ZRG1 BBBP-Z**
 2014-2015 Qatar National Research
 2013 Medical Research Council, UK (MRC)
 2013-2016 French National Research Agency: Evaluation Committee of the Mental Health/Addictions Ad Hoc Reviewer

Related Service

2025 SAMHSA National Training and Technical Assistance Center for Early Serious Mental Illness (ESMI TTA Center) CHRP-P Consensus Panel -Participant
 2020 NIMH Clinical High-Risk International Consensus Meeting -Participant
 2019 NIMH Research Domain Criteria (RDoC) Development and Environment Workgroup -Participant
 2016-2018 NIMH Research Domain Criteria (RDoC) [Motor Domain Workgroup](#) - Subgroup Co-Moderator

Research Experience

- 2010-Present* Principal Investigator
Adolescent Development and Preventive Treatment (ADAPT) Research Program
Lab Website: <http://www.adaptprogram.com>
Northwestern University
Department of Psychology
- 2025-Present* Director
Institute for Adolescent Mental Health and Well-Being
Northwestern University
- 2008 - 2010* Postdoctoral Research Fellow
Training in Clinical Research in Schizophrenia and Mood Disorders
University of California Los Angeles
Department of Psychology
Mentors: Tyrone, Cannon, Ph.D. and Keith Nuechterlein, Ph.D.
- 2007 - 2010* Center for the Assessment and Prevention of Prodromal States (CAPPS)
University of California Los Angeles
Department of Psychiatry and Biobehavioral Sciences
Advisors: Tyrone Cannon, Ph.D., Carrie Bearden, Ph.D.
- 2006 - 2007* Neurological Soft-Signs - Psychotic Disorders
Department of Veterans Affairs Atlanta, Medical Center
Advisor: Erica Duncan, Ph.D.
- 2002 - 2008* Adolescent Neurodevelopment and Psychopathology
Emory University
Mentor: Elaine Walker, Ph.D.
- 2000 - 2002* Aftercare Program, First-Onset Schizophrenia Longitudinal Study
University of California Los Angeles
Neuropsychiatric Institute (NPI)
Advisors: Kenneth Subotnik, Ph.D., Keith Nuechterlein, Ph.D.

Research Funding, Intramural/Extramural Support

A. Active

NIMH-R01MH136185

Title: Social Cognition Battery for Psychosis-Risk (SCB-PR): A Psychometric and Validation Study

PIs: Pinkham, Mittal

Co-Is/Consultants- Williams, Penn, Harvey

Project/Start and End Date: 12/5/24-10/31/29

Total Direct Costs: \$2.5 million

Major Goals: Develop a comprehensive battery of social cognitive tasks for youth at risk for psychosis

National Institute of Mental Health (NIMH) R01

CAPER: Computerized Assessment for Psychosis Risk 1R01MH120088-01A1

Principal Investigators: Vijay Mittal, Jim Gold

Total Direct Costs: \$8,125,402

Project: 4/01/2020-3/30/2025

Site PIs: Jim Gold, Vijay Mittal, Lauren Ellman, Gregory Strauss, Phil Corlett/Scott Woods

Co-Is: Elaine Walker, Steve Silverstein, Albert Powers, Rick Zinbarg, Shou Chen

Goal: To examine the value of including markers sensitive to disease course and amenable to computational approaches and utilize these to develop a new computerized battery for risk assessment of youth at clinical high-risk for psychosis.

National Institute of Mental Health R01MH134369

Title: Motor features of the voice as indicators of psychomotor agitation and retardation in current and remitted MDD

Dates: 4/2024-3/2029

MPI: Stewart A. Shankman, Vijay A Mittal, Matthew Goldrick

Co-Investigators: Yosi Keshet, Sebastian Walther

Total Direct Costs: \$2.5 million

Goal: Examination of vocal features as a biomarker for motor symptoms and disease progression in affective disorders.

National Institute of Mental Health R21 MH136408

Title: Estrogen and Mechanisms of Psychotic-like Experiences in the Transition to Adolescence

Dates: 8/15/2024-8/14/26

PI: Mittal, Katherine Damme,

Co-Investigators: Daniel Mroczek, Jennifer Pfliefer

Total Direct Costs: \$275k

Goal: Examine estrogen and psychosis-like experiences along with brain development and risk in the ABCD dataset.

National Institute of Mental Health R01MH116039-01A1

Prodromal Inventory for Negative Symptoms: Development and Validation

Principal Investigator: Vijay Mittal, Greg Strauss

Project: 3/01/2019-11/30/2025 (NCE)

Total Direct Costs: \$2,458,416

Co-Is: Elaine Walker, Brain Kirkpatrick, Bill Horan, Paul Grant, Rick Zinbarg

Goal: To develop a highly sensitive inventory for detecting early negative symptomatology in youth at risk for psychotic disorders

National Institute of Mental Health (NIMH) U01 MH124639-01

Psychosis-risk outcomes network: ProNET

Principal Investigators: Scott Woods (Yale), Carrie Bearden (UCLA), John Kane

Site PIs: Vijay Mittal (Northwestern), Fred Sabb (Oregon), William Stone (Harvard, Shanghai),

Barbara Cornblatt (Northwell), Diana Perkins (UNC), Kristin Cadenhead (UCSD), , Jean

Addington, (Calgary), Daniel Mathalon (UCSF), Monica Calkins/Daniel Wolf (Penn), Cheryl

Corcoran, Mt. Sinai, Leslie Horton (Pittsburgh), Jason Schiffman (UMBC), Laruen Ellman, (Temple), Greg Strauss (UGA), Daniel Mamah (Washington University), Jimmy Choi, Godfrey Pearlson (Hartford), , Jai Shah (Montreal), Paolo Fusar-Poli (Kings College, Pavia), Celso Arango (Madrid), Jesus Perez (Cambridge), Nikos Koutsouleris (Munich), Jun Soo Kwon (Seoul).

Co-Is: Stewart Shankman

Proposed Project Period: 9/1/20-8/2026 (NCE)

Total Direct Costs: \$55 million (Northwestern Site Directs: 1.24 million)

Goal: Develop a treatment development network capable of examining treatment related biomarkers as well as mapping in-depth clinical outcome measures.

National Institute of Mental Health R01

Title: Social Processing Deficits in Remitted Adolescent Depression Dates: 12/9-12/25 (NCE)

MPI: Corresponding PI: Randy P. Auerbach; PI: Stewart A. Shankman

Co-Investigators: Vijay Mittal; Jürgen Kayser; Laura Mufson; Linda Valeri; Nicholas Allen

Total Direct Costs: \$2.5 million

Goal: examine several modalities of social processing, including a novel eye-tracking gestures social perception task

B. Executive and Service Committees for Training and Research Programs

NIMH T32 MH126368

PI: Shankman & Wakschlag

2021-2025

Northwestern University Mental Health, Earlier: Transdiagnostic, Transdisciplinary, Translational Training Program in Neurodevelopmental Mechanisms of Psychopathology

Role: Steering Committee

Institute for Innovations in Developmental Science (DevSci)

Northwestern University, University wide institute focusing on fostering collaborations, training, and programming in the developmental sciences.

Role: Leadership- Steering Committee

NIMH NURTURE Grant, 2022-2025

PIs: Melissa Simon, Eric Perrault, Clyde Yancy

Role: Leadership Council, Scientific Neighborhood Faculty, Brain, Mind, and Behavior

Goal: transform culture at NIH-funded extramural institutions by building a self-reinforcing community of scientists committed to diversity and inclusive excellence

Interventions for Changes in Emotions, Perceptions and Thinking (Intercept)- Foundation and Sate Supported Clinical High-Risk Research Clinic

2023-Present

Director: Steve Silverstein

University of Rochester, Department of Psychiatry

Role: Advisory Board Member

C. Current Mentored Awards

NIMH National Research Service Award. NRSA 1F32MH139246

The role of mental imagery in perceptual abnormality formation in individuals at clinical high-risk for psychosis

Danielle Pratt 2024-2026

Mentor: Mittal, Corlett

Goal: To examine computational processes related to perceptual abnormalities in CHR individuals.

NIMH National Research Service Award. NRSA 1F31MH139284

EEG coherence as a biomarker for Psychomotor Disturbance and Course of Depression

Vanessa Zarubin 2024-2026

Mentor: Mittal, Shankman

Goal: To examine neural correlates of psychomotor retardation in depression utilizing resting state EEG.

Brain and Behavior Research Foundation, NARSAD Young Investigator Award

Principle Investigator: Danielle Pratt

Project Period: 1/15/2025-1/14/27

Total Direct Costs: \$60,000

Goal: To determine the cognitive contributions to the experience of perceptual aberrations in those at risk for psychosis.

Mentor: Mittal

NIA Transition to Aging Research for Predoctoral Students (F99/K00) Award 1F99AG088569-01

Precision mapping of functional networks in healthy and pathological aging

Diana C. Perez Rivera

2024-2025

Sponsors: Gratton, Mittal

Goal: To examine and characterize individual differences in functional brain networks during healthy aging (pre-doctoral phase) and pathological aging (post-doctoral phase)

NIMH Mentored Patient-Oriented Research Career Development Award. K23MH129607

Clarifying the Role of Psychomotor Retardation in Reward-Based Reinforcement Learning Deficits in MDD: A Computational and fMRI Study

Allison Letkiewicz 2022-2027

Mentor: Mittal, Shankman

Goal: To examine the impact of psychomotor slowing on reward-based reinforcement learning in depression

D. Service on Data and Safety Monitoring Boards

2026-Present Advancing Early Intervention Network in Texas (EPINET-TX). Feasibility trial of an intervention to increase social connection and belonging in individuals in Coordinated Specialty Care

2026-Present R01 Hong, YU, Preclinical children and adolescents aged 9-18 with a significant family history of schizophrenia target nonspecific risk factors of schizophrenia (e.g., sleep problems, traumatic experiences) with evidence-based family therapy modules for 16 weeks

E. Completed Research Support

National Institute of Mental Health R01MH118741

An examination of psychomotor disturbance in current and remitted MDD: An RDoC Study

PIs: Stewart Shankman, Vijay Mittal, Sebastian Walther

Total Direct Costs: \$2,500,000

Project Period: 4/1/2019-3/31/2025 (NCE)

Co-Is: Jessica Bernard, Alex Loew

Consultant: Vinod Menon

Goal: Study motor symptoms in depression from RDoC Framework and develop a mobile platform for utilizing these markers as an early identification/treatment decision informatics system.

National Institute of Mental Health 1R01MH112545-01

2/3 Community psychosis risk screening: An instrument development study

Principal Investigator: Vijay Mittal, Lauren Ellman, Jason Schiffman

Project Period: 7/2017-7/2024 (NCE)

Total Direct Costs: \$2,500,000.00

CO-Is: Thomas Olino, Warren Bilker

Goal: This study, including sites in Chicago, Philadelphia, and Baltimore, will recruit 12,000 adolescent and young adult participants with the aim of developing a screening designed to identify non-help-seeking community youth who are likely to meet criteria for a psychosis risk syndrome.

Brain Behavior Research Foundation Independent Investigator Award, (NARSAD)

Brain stimulation targeting cerebellar-cortical circuits and verbal working memory in psychosis

Principal Investigator: Vijay Mittal

Project Period: 3/15/2018-3/14/2023 (NCE)

Total Direct Costs: \$100,000

Co-I: Jessica Bernard

Goal: A functional magnetic resonance imaging (fMRI), double-blind cross over study designed to determine if targeted cerebellar brain stimulation will normalize brain activation and behavioral task performance in individuals with schizophrenia performing a verbal working memory task.

National Institute of Mental Health R21 MH115231

High-Risk Psychosis Youth and Caregivers: Emotion in Interaction

Principal Investigators: Claudia Haase, Vijay A Mittal

Project Period: 9/2017-8/30/2022 (NCE)

Total Direct Costs: \$275,000

Goal: Project will examine adolescents at high-risk for psychosis and caretakers in a dyadic interaction task to evaluate if patterns of aberrant emotional arousal and regulation predict course of illness.

National Institute of Mental Health R21, Supplement

High-Risk Psychosis Youth and Caregivers: Emotion in Interaction

PIs: Haase, Mittal

Project Period: 9/2017-8/30/2022 (NCE)

Total Direct Costs: \$30,000

Goal: To evaluate interactive variables from pairs of caretaker/youth in the context of clinical course.

National Institute of Mental Health R21 MH119677

Language features and High-Risk Psychosis Youth

Principal Investigators: Matthew Goldrick, Vijay A Mittal

Project Period: 4/2019-12/31/2023 (NCE)

Total Direct Costs: \$275,000

Goal: Project will examine vocal features from the perspective that they may represent a sign of motor dysfunction in youth at high risk for psychosis. We will use a computational approach to linguistic feature and pattern analysis and follow high-risk youth over time to track course and develop predictive models.

Substance Abuse and Mental Health Services SAMHSA CHP-R Federal Grant SM-18-012
Community Programs for Outreach and Intervention with Youth and Young Adults at Clinical High Risk for Psychosis

Total Direct Costs: \$1,600,000

PIs: State of Illinois, Thresholds

Project Period: 12/2018-11/2022

Consultant: Mittal, Hooker

Goal: To implement a stepped care model to treatment of prodromal syndromes in the Illinois healthcare system.

Northwestern Weinberg College Research and Innovation Grant W Award

Using motor control disruptions in speech to predict risk for psychotic disorders

Direct Costs: \$35,000

Project Period: 9/2017-8/2018

Goal: To develop software for analyzing speech patterns indicating increased risk for psychosis.

National Institute of Mental Health Translational Research for the Development of Novel Interventions for Mental Disorders: R21/R33 Award, MH103231

Exercise and markers of medial temporal health in youth at ultra high-risk for psychosis

Principal Investigators: Vijay Mittal, Ph.D., Angela Bryan

Project Period: 07/2014-6/2020 (NCE)

Total Direct Costs: \$850,000

Co-I: Randal Ross, M.D.

Goal: To test feasibility and to design a pilot-controlled trial investigation of cardiovascular exercise and medial temporal neurogenesis and cognitive/functioning remediation in youth at high-risk for schizophrenia.

National Institute of Mental Health R21 MH110374

Neural Habituation in Ultra High-Risk Youth

Principal Investigators: Vijay Mittal

Project Period: 4/2017-3/30/2021 (NCE Y2)

Total Direct Costs: \$275,000

Co-Is: Timothy Curran, Robin Nusslock

Consultant: Holly Earls

Goal: This project will examine how neural habituation (i.e., a decrease in neural activation to repeated stimuli) is related to social processing deficits in ultra high-risk youth (UHR), a group at imminent risk for transitioning to a psychotic disorder. The project utilizes electroencephalography (EEG) to examine whether neural habituation abnormalities in the P100 component (associated with early visual perception), and N170 repetition effect (associated with visual object recognition and learning) are specific to social stimuli (emotional and/or neutral faces) or generalize to non-face objects.

National Institute of Health, R01MH094650

Project Title: Motor Measures of Basal Ganglia and Cerebellar Circuit Dysfunction in Psychosis

Principal Investigator: Vijay A. Mittal, Ph.D.

Project Period: 06/01/2011-02/29/2018

Total Direct Cost: \$1,820,544

CO-Is: Randal Ross, M.D., Marie Banich Ph.D.

Goal: Investigate spontaneous movement abnormalities as a potential biomarker for white matter and grey matter development components of frontal-subcortical circuits, in adolescents at high-risk for psychosis.

Northwestern Data Science Initiative Award

Automated analysis of vocal characteristics for early detection of schizophrenia

Total Award: \$30,000

06/2016-05/2017

P.Is Matthew Goldrick, Emily Cibelli, Vijay Mittal

Goal: To Evaluate early motor dysfunction in speech signifying risk for psychosis.

Buffett Institute for Global Study, Scholars in Israel Collaboration

P.Is Matthew Goldrick, Vijay Mittal, Emily Cibelli, Joseph Keshet, Yossi Adi, Jennifer Cole

Date: 06/2017-5/2017

Total Award: \$25,000

A Multidisciplinary Approach to Predicting Schizophrenia

Goal: To use machine learning to evaluate movement markers of risk for psychosis.

Intermountain Neuroimaging Consortium (INC) Pilot Award

Default Mode Network Hyperconnectivity Across the Schizophrenia Spectrum

PI: Mittal and Turner

Project Period: 2012-2013

Goal: To examine potential hyperconnectivity patterns across the psychosis spectrum

National Institute of Health (NIH) Clinical Research Loan Repayment Award (2009-2012)

Dyskinetic Movements and Glucocorticoids in Adolescents At-Risk for Psychosis

Principal Investigator: Vijay A. Mittal, Ph.D.

NIH- L30 MH087258:01-02

Goal: This project is designed to investigate the roles between stress reactivity, reciprocal dopamine activation, and potentially consequent neuromotor dysfunction

National Institute of Mental Health (NIMH) Career Development Award: 08/01/07-07/31/12

The Neurobiological Basis of Prodromal States and Psychosis in Adolescence

Principal Investigator: Melita Daley, M.D.

NIMH 5K23MH79028-3

Goal: Longitudinal ¹H MRSI/MRI study of the brain in prodromal psychosis and schizophrenia in adolescents and young adults.

Role: Biostatistician, 2.5 months

National Alliance for Research in Schizophrenia and Affective Disorders (NARSAD). Young Investigator Award 07/01/07 – 06/30/09

The Neurobiological Basis of Early Phases of Schizophrenia and Bipolar Disorder in Adolescence

Principal Investigator: Melita Daley, M.D.

Goal: Longitudinal structural MRI study of the medial temporal lobe, basal ganglia structures and the prefrontal cortex in adolescents and young adults with schizophrenia and bipolar disorder.

Role: Biostatistician, 3 months.

National Institute of Mental Health (NIMH) National Research Service Award (NRSA)/Training

Principal Investigator: Keith Nuechterlein, Ph.D.

NIMH NRSA T32 MH14584-33

University of California Los Angeles, Department of Psychology

Role: Postdoctoral Fellow

National Science Foundation (NSF) GK12 Program

Problems and Research in Integrating Science and Math (PRISM)

Awards #DGE0536941 and #DGE0231900

Principal Investigator: Patricia Marsteller, Ph.D.

Role: Research Fellow, Teacher

E. Completed Mentored Awards

NIMH National Research Service Award. NRSA 1F32MH133302-01A1

Paranoia and Bias in Social Belief Updating in Clinical High Risk for Psychosis

Trevor Williams 2023-2025

Mentor: Mittal, Corlett

Goal: To examine computational and social cognitive processes related to paranoia in CHR individuals.

NIMH National Research Service Award. F31MH123121

The Neural Mechanisms of Motor Dysfunction in Clinical High-Risk Youth

Juston Osborne 2020-2022

Mentor: Mittal

Goal: To examine motor psychophysiology (e.g., LRP, CNV) and develop biomarkers in CHR youth.

NIMH National Research Service Award. NRSA 1F31MH121018-01A1

Neurocorrelates of alterations in facial expressivity in youth at clinical high-risk for psychosis

Tina Gupta 2019-2021

Mentor: Mittal, Haase

Goal: To examine underlying neural circuitry in motor and limbic networks of alterations in facial expressivity in psychosis risk.

NIMH National Research Service Award. NRSA 1F31MH119776-01A1

Cumulative environmental risk exposure in youth at clinical high-risk for psychosis

Teresa Vargas 2019-2022

Mentor: Mittal, McDade

Goal: To examine if stress during different developmental periods influences adult brain dysfunction and psychosis risk.

National Academy of Science, Ford Fellowship

Early life stress and adult brain structure and cognition

PI: Teresa Vargas

Project Period 6/2019-5/2022

Mentor: Vijay Mittal

Goal: To examine how early experience shape brain development and influence the way people interact with the world they live in.

Canadian Institutes of Health Research (CIHR), Doctoral Foreign Study Award (DFSA)
Cortical Midline Structures and Self-Reflection in youth at ultra-high risk for psychosis

PI: Raffles Cowan

Dates: 9/2017-8/2020

Mentors: Dan McAdams, Vijay Mittal

Goal: To use narrative interviewing and resting stage imaging methods to understand aberrant self-reflection in high-risk youth.

Brain and Behavior Research Foundation, NARSAD Young Investigator Award

Emotion, Mental Health, and Epigenetic clock in high-risk caregivers

Principle Investigator: Claudia Haase

Project Period: 12/2017-11/19

Total Direct Costs: \$60,000

Goal: To determine how negative emotion during dyadic interaction predicts accelerated epigenetic aging in caregivers of youth at risk for psychosis.

Sponsors: Mittal, Alexander

Brain and Behavior Research Foundation, NARSAD Young Investigator Award

Elucidating the Role of Abnormal Motor Resonance in Social Cognition Deficits in Schizophrenia

PI: Jerilyn Kent

Project Period: 12/2017-11/19

Total Direct Costs: \$60,000

Sponsors: Scott Sponheim

Mentoring Collaborator: Vijay Mittal

Brain Behavior Research Foundation (formally NARSAD): Young Investigator Award

Cerebello-Prefrontal Involvement in Error Processing and Rule Learning in Youth at Ultra High-Risk for Psychosis

Project Period: 1/1/2015-1/1/2017

Total Direct Costs: \$60,000

P.I. Jessica Bernard, Ph.D.

Mentor: Vijay Mittal, Ph.D.

Co Mentor: Banich

National Research Service Award (NRSA), 1F31MH100821-01A1

The neural basis of social cognition in adolescence

10/01/2013-9/30/2016

P.I. Andrea Pelletier, M.A.

Mentor: Vijay Mittal, Ph.D.

Co-Mentors: Tor Wager, Jessica Turner

National Research Service Award (NRSA) 1F32MH102898-01
Cerebellar contributions to disease course in youth at high-risk of psychosis
10/01/2013-9/30/2015
P.I. Jessica Bernard, Ph.D.
Mentor: Vijay Mittal, Ph.D.
Co-Mentor: Marie Banich

Publications

Note: * indicates the author was a graduate student or postdoctoral student who worked under my direct mentorship

A. Peer Reviewed Articles:

- 1) Corcoran, C., Walker, E. F., Huot, R., Mittal, V. A., Tessner, K., Kestler, K. & Malaspina, D. (2003). The stress cascade and schizophrenia: etiology and onset. *Schizophrenia Bulletin*, 29(4), 671-692. doi: 10.1093/oxfordjournals.schbul.a007038
- 2) Mittal, V. A., Tessner, K., Delawalla Z., McMillan, A., Trottman, H. & Walker, E. F. (2006). Gesture behavior in unmedicated schizotypal adolescents. *Journal of Abnormal Psychology*, 115(2), 351-358. doi: 10.1037/0021-843x.115.2.351
- 3) Mittal, V. A., Dhruv, S., Tessner, K. D. Walder, D. J., & Walker, E. F. (2007). The relations among putative biorisk markers in schizotypal adolescents: minor physical anomalies, movement abnormalities, and salivary cortisol. *Biological Psychiatry*, 61(10), 1179-1186. doi: 10.1016/j.biopsych.2006.08.043
- 4) Mittal, V. A., Tessner, K. D., & Walker, E. F. (2007). Elevated social Internet use and schizotypal personality disorder in adolescents. *Schizophrenia Research*, 94(1-3), 50-57. doi: 10.1016/j.schres.2007.04.009
- 5) Mittal, V. A., Tessner, K. D., Trottman, H. D., Dhruv, S., Esterberg, M., Simeonova, D., McMillan, A. L., Murphy, E., Saczawa, M. & Walker, E. F. (2007). Movement abnormalities and the progression of prodromal symptomatology in adolescents at risk for psychotic disorders. *Journal of Abnormal Psychology*, 116(2), 260-267. doi: 10.1037/0021-843x.116.2.260
- 6) Mittal, V. A., & Walker, E. F. (2007). Movement abnormalities predict conversion to Axis I psychosis among prodromal adolescents. *Journal of Abnormal Psychology*, 116(4), 796-803. doi: 10.1037/0021-843x.116.4.796
- 7) Mittal, V. A., Hasenkamp, W., Sanfilipo, M., Wieland, S., Burton, A., Rotrosen, J. & Duncan, E. (2007). Relation of neurological soft signs to psychiatric symptoms in schizophrenia. *Schizophrenia Research*, 94(1-3), 37-44. doi: 10.1016/j.schres.2007.04.017
- 8) Walker, E. F., & Mittal, V. A. (2007). Movement abnormalities- psychosis: Letter to the Editor. *APA Monitor on Psychology*, 38(8).
- 9) Walker, E. F., & Mittal, V. A. (2007). External and inherent constraints on progress in psychology: Reflections on Paul Wachtel's observations. *Applied & Preventive Psychology: Current Scientific Perspectives*, 12, 44-46. doi: 10.1016/j.appsy.2007.07.012

- 10) Mittal, V. A., Neumann, C., Saczawa, M., & Walker, E. F. (2008). The longitudinal progression of movement abnormalities and psychotic symptoms in adolescents at high-risk for psychosis. *Archives of General Psychiatry*, 65(2), 165-170. doi: 10.1001/archgenpsychiatry.2007.23
- 11) Mittal, V. A., Saczawa, M., Walder, D. J., Willhite, R., & Walker, E.F. (2008). Prenatal viral teratogen exposure and conversion among adolescents at high-risk for psychosis. *Schizophrenia Research*, 99, 375-376. doi: 10.1016/j.schres.2007.11.037
- 12) Walder, D. J., Mittal, V. A., Trotzman, H. D., McMillan, A. L. & Walker, E. F. (2008). Neurocognition and conversion to psychosis in adolescents at high-risk. *Schizophrenia Research*, 101(1-3), 161-168. doi: 10.1016/j.schres.2007.12.477
- 13) Walker, E. F., Mittal, V. A., & Tessner, K. D. (2008). Stress and the Hypothalamic Pituitary Adrenal Axis in the Developmental Course of Schizophrenia. *Annual Review of Clinical Psychology*, 4(1), 189-216. doi: 10.1146/annurev.clinpsy.4.022007.141248
- 14) Mittal, V. A., Willhite, R., & Cannon, T. D. (2008). Floaters: A potential confound to the assessment of perceptual abnormalities. *Schizophrenia Research*, 104(1-3), 305-306. doi: 10.1016/j.schres.2007.09.033
- 15) Mittal, V. A., Ellman, L. M. & Cannon, T. D. (2008). Gene-environment interaction and covariation in schizophrenia: The role of obstetric complications. *Schizophrenia Bulletin*, 34, 1083-1094. doi: 10.1093/schbul/sbn080
- 16) Mittal, V. A., Willhite, R. W., Niendam, T., Daley, M. Bearden, C. E., Ellman, L. M., & Cannon, T. D. (2009). Obstetric complications and risk for conversion to psychosis among Individuals at high clinical risk. *Early Intervention in Psychiatry*, 3, 226-230. doi: 10.1111/j.1751-7893.2009.00137.x
- 17) Mittal, V. A. Walker, E. F., Walder, D., Trotzman, H., Bearden, C. E., Daley, M. Simone, A. & Cannon, T. D. (2010). Markers of basal ganglia dysfunction and conversion to psychosis: Neurocognitive deficits and dyskinesias in the prodromal period. *Biological Psychiatry*, 68, 93-99. doi: 10.1016/j.biopsych.2010.01.021
- 18) Mittal, V. A., Karlsgodt, K. H., Zinberg, J., Cannon, T. D. & Bearden, C. E. (2010). Identification and Treatment of a Pineal Gland Tumor in an Adolescent with Prodromal Psychotic Symptoms. *American Journal of Psychiatry*, 167(9), 1033-1037. doi: 10.1176/appi.ajp.2010.09071043
- 19) Mittal, V.A., & Walker E.F. (2010). Movement Abnormalities and Schizophrenia in DSM V. *Psychological Medicine*, 40(9), 1581-1583. doi: 10.1017/s0033291710001352
- 20) Mittal, V.A., Daley, M., Shiode, M.F., Bearden, C.E., O'Neill, J., & Cannon, T.D. (2010). Striatal volumes and dyskinetic movements in youth at high-risk for psychosis. *Schizophrenia Research*, 123(1), 68-70. doi: 10.1016/j.schres.2010.08.002
- 21) Mittal, V.A., & Walker, E. F. (2011). Minor physical anomalies and vulnerability in prodromal youth. *Schizophrenia Research*. 129(2-3), 116-121. doi: 10.1016/j.schres.2011.02.022

- 22) Mittal, V.A., Cannon, T.D., Bearden, C.E., (2011). Reply to De Nadai et al. *American Journal of Psychiatry*. 168(5), 550-551.
- 23) Tessner, K. D., Mittal, V.A., & Walker, E.F. (2011). Longitudinal study of stressful life events and daily stressors among adolescents at high risk for psychotic disorders. *Schizophrenia Bulletin*, 37(2), 432-441. doi: 10.1093/schbul/sbp087
- 24) Mittal, V.A., Jalbrzikowski M, Bearden, C.E., Daley M., Roman C., Cannon T.D. (2011). Abnormal movements are associated with poor psychosocial functioning in adolescents at high risk for psychosis. *Schizophrenia Research*, 130(1 -3), 164-169. doi: 10.1016/j.schres.2011.05.007
- 25) Mittal, V.A. & Walker, V. A. (2011). Dyskinesias, tics, and psychosis in the next Diagnostic and Statistical Manual of Mental Disorders. *Psychiatry Research*, 189, 158-159. doi: 10.1016/j.psychres.2011.06.006
- 26) Mittal, V.A., *Dean, D., *Pelletier, A., Caligiuri, M. (2011). Associations between spontaneous movement abnormalities and psychotic-like experiences in the general population. *Schizophrenia Research*, 132, 194-196. doi: 10.1016/j.schres.2011.06.028
- 27) *Pelletier, A. & Mittal, V.A. (2012). An Autism Dimension for Schizophrenia in the Next Diagnostic and Statistical Manual? *Schizophrenia Research*, 137(1-3). 269-270. doi: 10.1016/j.schres.2012.01.033
- 28) Mittal, V.A., *Dean, D., & *Pelletier, A. (2012). Dermatoglyphic asymmetries and fronto-striatal dysfunction in young adults reporting non-clinical psychosis. *Acta Psychiatrica Scandinavica*, 126, 290-297. doi: 10.1111/j.1600-0447.2012.01869.x. PMC3404232
- 29) Mittal, V.A., Smolen, A., *Dean, D.J. *Pelletier, A. *Avery, J., *Smith, A. (2012). BDNF val66met and spontaneous dyskinesia in non-clinical psychosis. *Schizophrenia Research*, 140, 65-70. doi: 10.1016/j.schres.2012.06.018. PMC3423560
- 30) Golembo-Smith, S, Walder, D, Daly, M., Mittal, V.A., Kline, E. Reeves, G., Schiffman, J (2012). The presentation of dermatoglyphic abnormalities in schizophrenia: a meta-analytic review. *Schizophrenia Research*, 142(1-3), 1-11. doi: 10.1016/j.schres.2012.10.002
- 31) *Pelletier, A. *Dean, D. *Lunsford-Avery, J.L., *Orr, J., *Gupta, T., Millman, Z.B., Mittal, V.A. (2013). Emotion recognition and social/role dysfunction in non-clinical psychosis. *Schizophrenia Research*, 143(1), 70-73. doi: 10.1016/j.schres.2012.10.039
- 32) *Pelletier, A. Mittal, V.A (2013). Negative symptom measurement in individuals at-risk for psychosis. *Psychiatry Research*, 205(1-2), 181-182. doi: 10.1016/j.psychres.2012.08.020
- 33) Mittal, V.A., *Orr, J.M. *Pelletier, A.L., *Dean, D.J., *Lunsford-Avery, J. *Smith, A. (2013). Hypothalamic-Pituitary-Adrenal Axis Dysfunction in Non-Clinical Psychosis. *Psychiatry Research*, 206(2-3), 315-317. doi: 10.1016/j.psychres.2012.12.021. PMC3615096
- 34) *Smith, A.K., & Mittal, V.A. (2013). Delusions of Body Image in the Prodrome. *Schizophrenia Research*, 146(1-3), 366-367. doi: 10.1016/j.schres.2013.01.033

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- 36) Frank, G., Schott, M, Hagman J., Mittal, V.A. (2013). Alterations in brain structures related to taste reward circuitry in ill and recovered anorexia, but also bulimia nervosa. *American Journal of Psychiatry*, 10(170), 1152-1160. doi: 10.1176/appi.ajp.2013.12101294
- 37) *Dean, D., Caliguiri, M., Tuelings, H., & Mittal, V.A. (2013). Handwriting Analysis Indicates Spontaneous Dyskinesias in Adolescents at High Risk for schizophrenia. *Journal of Visualized Experiments*, 81. doi: 10.3791/50852
- 38) *Dean, D.J. & Mittal, V.A. (2013). Tinnitus: A potential confound when assessing perceptual abnormalities ultra-high-risk youth. *Schizophrenia Research*, 147, 410-411. doi: 10.1016/j.schres.2013.04.033.
- 39) *Lunsford-Avery, J. & Mittal, V.A. (2013). Sleep dysfunction prior to the onset of schizophrenia: a review and neurodevelopmental diathesis-stress conceptualization. *Clinical Psychology: Science and Practice*, 20(3), 291-320. doi: 10.1111/cpsp.12041.
- 40) Mittal, V.A., *Gupta, T., *Orr, J.M. *Pelletier, A.L., *Dean, D.J., *Lunsford-Avery, J. *Smith, A., *Robustelli, B.R., *Leopold, D.R., *Millman, Z. (2013). Physical activity level and medial temporal health in youth at ultra high-risk for psychosis. *Journal of Abnormal Psychology*, 122(4), 1101-1110. doi: 10.1037/a0034085
- 41) *Lunsford-Avery, J.R., *Orr, J.M., *Gupta, T., *Pelletier, A.L., *Dean, D.J., *Bernard, J., *Smith, A., *Bernard, J., *Millman, Z., Mittal, V.A. (2013). Sleep Dysfunction and Thalamic Abnormalities in Adolescents at Ultra High-Risk for Psychosis. *Schizophrenia Research*, 151(1-3), 148-53. doi: 10.1016/j.schres.2013.09.015.
- 42) Mittal, V, *Orr, J. *Turner, J. *Pelletier, A., *Dean, D., *Lunsford-Avery, J. *Gupta, T. (2013). Striatal abnormalities and Spontaneous Dyskinetic Movements in Non-Clinical Psychosis. *Schizophrenia Research*, 151(1-3), 141-147. doi: 10.1016/j.schres.2013.10.003
- 43) Frank, G., Schott, M., Haggman, J. Mittal, V. (2013). Reply to Keating and Rossell. *American Journal of Psychiatry*, 170(11), 1367. doi: 10.1176/appi.ajp.2013.13060813r
- 44) *Dean, D.J., *Bernard, J.A., *Orr, J., *Pelletier, A.L., *Gupta, T., *Carol, E., Mittal, V.A. (2013). Cerebellar morphology and procedural learning impairment in youth at ultra high-risk of psychosis. *Clinical Psychological Science*, 2(2), 152-164. doi: 10.1177/2167702613500039
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V.A. (2016). Hippocampal shape abnormalities predict symptom progression and impaired tolerance to stress in youth at ultrahigh risk for psychosis, *Schizophrenia Bulletin*, 42, 161-169. doi: 10.1093/schbul/sbv086

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- 11) Mittal, V.A., *Pelletier, A.L., Kestler, L. Bollini, Hochman, K., & Walker, E.F. (in press). Schizophrenia. In J.E. Maddox & B.A. Winstead (Eds.) *Psychopathology: Foundations for a contemporary understanding* (4th edition) Routledge: New York.
- 12) Mittal, V.A. Overview, Schizophrenia. In Wenzel, A., (Ed) *Sage Encyclopedia of Abnormal and Clinical Psychology*. Sage, Thousand Oaks CA, 2958-2966.
- 13) *Robustelli, B, Mittal, V.A., *Thought Insertion*. Definitions in *Sage Encyclopedia of Abnormal and Clinical Psychology*. Wenzel, A. Ed). Sage, Thousand Oaks CA: 3523-3524.
- 14) *Dean, J., Mittal, V.A., *Akathisia* Definitions in *Sage Encyclopedia of Abnormal and Clinical Psychology*. Wenzel, A (Ed). Sage, Thousand Oaks CA: 3476-3477.
- 15) *Carol, E.D., Mittal, V.A., *Schizophrenia Spectrum and Other Psychotic Disorders: Incidence and Prevalence* Definitions in *Sage Encyclopedia of Abnormal and Clinical Psychology*. Wenzel, A (Ed). Sage, Thousand Oaks CA: 2950-2952.
- 16) *Gupta, T., Mittal, V.A., *Thought Broadcasting* Definitions in *Sage Encyclopedia of Abnormal and Clinical Psychology*. Wenzel, A (Ed). Sage, Thousand Oaks CA: 3522.
- 17) Ryan, Arthur, Trottman, H., Mittal, V. A., Tessner, K. D., & Walker, E. F., (2017).

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19) *Azis, M, Ristanovic I, Pelletier, A.L., Kestler, L. Bollini, Hochman, K., Walker, EF. Mittal VA (2019). Schizophrenia. In J.E. Maddox & B.A. Winstead (Eds.) *Psychopathology: Foundations for a contemporary understanding* (5th edition) Routledge: New York.

20) *Gupta, T., Damme, KSF., Osborne, KJ., Vargas, TG., Ristanovic, I., Frosch, IR., Zarubin, VC., Hitzenko, K., Williams, TF., Cowan, HR., Mittal, VAM. Psychotic disorders and risk-states in adolescence: Etiology, developmental considerations, and treatment. In *comprehensive clinical psychology* 2nd edition, Volume 5: Case conceptualization and treatment: Children and adolescents. Elsevier, 2021.

21) *Williams, T. F., Pratt, D. N., Howie, S. H., & Mittal, V. A. (in prep). Treatment of negative symptoms in clinical high-risk populations. In T. L. Lincoln, M. Brown, & D. Kimhy (Eds.), *Negative Symptoms in Psychosis: Psychological and Social Approaches for Clinicians and Researchers*. Oxford: University Press, 2026

22) *Carol, E.E., Gupta, T., Pratt, D.N., Ristanovic, I., Williams, T.F., Mittal, V.A., (Submitted). *Communication around mitigating risk and promoting wellness*. In Horton, L., Landa, Y, Shiffman, S., Woods, S. (Eds.) *Talking About Psychosis Risk*. Oxford University Press: NY.

23) Pratt, DN, Aberizk K, Guest RM, Williams TF, Bilgrami Z, Karp E, Walker, EF. Mittal VA (2019). Schizophrenia and Other Spectrum Disorders. In J.E. Maddox & B.A. Winstead (Eds.) *Psychopathology: Foundations for a contemporary understanding* (6th edition) Routledge: New York.

24) Pokorny V, Cannon TD Worthington M, Carter C, Gupta T, Keshevan M, Schiffman J, Mittal VA, (in press) People with High Clinical Risk and Transdiagnostic Therapeutic Discovery in Carol Tamminga's section *Expanding Biopsychological Concepts in Transdiagnostic Research into Therapeutic Discovery* of Rudy Schreiber 's *Transdiagnostic Neurotherapeutics*.

C. Conference Proceeding

1) Hitzenko, K., Cowan, H., Mittal, V., & Goldrick, M. (2021). Automated coherence measures fail to index thought disorder in individuals at risk for psychosis. In N. Goharian, P. Resnik, A. Yates, M. Ireland, K. Niederhoffer, & R. Resnik (Eds.) *Proceedings of the Seventh Workshop on Computational Linguistics and Clinical Psychology (CLPsych): Improving Access*, pp. 129-150.

D. Select Examples of Popular Press Coverage and Experience with Science Communication

- 1) Lab work covered by [Denver Post](#)
- 2) [Psychology Today](#) coverage of cognitive neuroscience and delusions work
- 3) [Northwestern Magazine](#) covers exercise and motor research
- 4) Northwestern [Institute for Policy Research](#) (IPR) coverage of biomarker work

- 5) [Sharpening the Science of Mental Health](#), APS
- 5) Mittal present [TEDx](#) Northwestern Talk on exercise research
- 6) Exercise work covered in [Knowable Magazine](#) (Annual reviews)
- 7) Introducing Northwestern's [Psychology Department](#) strengths in undergraduate research training

E. Op-Eds

- 1) Mittal VA, Engeln R. (2025). How Young People Learn to Be Unhappy. *Wall Street Journal*.
https://www.wsj.com/opinion/how-young-people-learn-to-be-unhappy-c1747edf?st=mcj5vU&reflink=desktopwebshare_permalink

Presentations

A. Select Conference and Academic Symposia

Grand Rounds: Movement abnormalities are the missing puzzle piece for pressing questions in serious mental illness: a perspective from early psychosis and the prodrome.

Jamaica Hospital, Dept Psychiatry
Queens NYC, 2026

Grand Rounds: Early Psychosis: Next Generation Approaches for Identification, Prediction, and Intervention

Wayne State, Dept Psychiatry
Detroit MI, 2027

Keynote: Global child mental health symposium

David Rubenstein Forum

University of Chicago, Crown Family School of Social Work, Policy and Practice
Chicago 2026

Invited Discussant: Socioemotional Well-Being in a Digital World Conference

Research Innovations

Center for Responsible Technology, Policy, and Public Dialogue
Evanston, 2026

Grand Rounds: University of Rochester, Department of Psychiatry

Motor signs and what they can tell us about vulnerability and active disease driving mechanisms in schizophrenia spectrum disorders.

Rochester NY, 2026

Grand Rounds: Rush University Medical Center, Road Home Program. Psychotic disorders and Trauma.

Chicago, 2025

Opening Remarks: DISCOURSE, SIRS Satellite Meeting

Chicago, 2025

Symposium: Emerging Advances in Transdiagnostic Phenotyping from Large-Scale Studies of Clinical High Risk for Psychosis

SIRS, Chicago 2025 (accepted, upcoming presentation)

Chairs: Vijay Mittal, Raffles Cowan

Symposium: Forecasting course: what markers of psychosis tell us about illness trajectories
SIRS, Chicago 2025 (accepted, upcoming presentation)
Chairs: Kotov, Jonas

Symposium: A New Framework for Body and Movement as Foundations to Conceptualization,
Early Recognition, Diagnosis, and Treatment in Psychosis
SIRS, Chicago 2025 (accepted, upcoming presentation)
Chairs: Moussa-Tooks

Invited Presentation: Understanding how treatment development occurs in psychosis
University of Rochester, Department of Psychiatry, 2024

Invited Keynote Address: Enhancing prediction and building novel interventions for youth at high
risk for psychosis, 2024
University of California Santa Barbara, Department Psychology
Psychological & Brain Sciences ENGAGE Alumni Distinguished Speaker

Workshop: Transdiagnostic Clinical Risk Calculators as a Critical Tool for Advancing Equitable
Precision Medicine: Bridging Mental and Physical Health to Accelerate Translation, 2023
Northwestern University
Contributions of Mechanistic Components to Risk Prediction for Psychosis
Chairs: Wakshlag, Allen, Mittal

Symposium: The promise of interventions targeting the motor system in psychosis
Cerebellar stimulation and cognitive functioning in early psychosis: the road to developing a novel
intervention
SIRS, 2023, Toronto
Chairs: Walther, Moussa-Tooks

Symposium: Multimethod approaches towards studying psychomotor disturbance in depression
Biological Psychiatry, 2023
San Diego
Chairs: Shankman, Mittal

Colloquium: Novel Interventions for the Psychosis-Risk Period: Where Do They Come From?
Department of Psychology, Yale University, 2022

Invited Talk: Movement as a transdiagnostic element in serious mental illness
Grawemeyer Award Event
University of Louisville, 2022

Invited Talk: Motor signs and risk for psychosis: Advancing neurodevelopmental perspectives in
RDoC
Columbia Psychiatry, 2021

Invited Talk: Human Development and RDoC
Northwestern University

DevSci, 2021

Symposium: Social interaction deficits in psychosis- neural correlates and potential treatments.

Gesture perception and the psychosis risk period

European Scientific Association on Schizophrenia and other Psychoses (ESAS)

Speakers: Benjamin Straube, Tina Gupta, Michelle Friedman-Yakooban,

Chairs: Walther, Mittal

Symposium: Translating the biomarkers of schizophrenia to clinical settings: a precision psychiatry approach

Translational applications of biomarker research for clinical high-risk youth

SIRS, Virtual 2021

Speaker: Mittal, Waltz, Lewandowski and Carpenter (Discussant)

Chair: Chan

Symposium: Alterations of RDoC's Sensorimotor Domain in Major Depression: Behavior, Circuits and Clinical Correlates

Biological Psychiatry, San Diego 2021

Chairs: Mittal Shankman

RDoC Workshop: 10 Years of RDoC

Adolescent Development, the sensorimotor domain and translational clinical psych science

[Link to Talk](#)

APS Workshop, 2021

Speakers: Mittal, Kujawa, McNamarra, Cuthbert, Morris

Host: APS & NIMH

Grand Rounds: Psychosis risk and motor symptoms

Ohio State Psychiatry, July 2021

Host: N. Breitborde

Symposium: Stress and developmental risk for psychopathology: From epigenetics to brain circuits

Biological Psychiatry, Chicago 2019

Chairs: Mittal, Belger

Symposium: Psychomotor dysfunction in major depression: a multi-method symposium on this understudied aspect of major depression.

Biological Psychiatry, Chicago 2019

Speakers: Mittal, Bernard, Walther, Loew

Chairs: Shankman

Invited: Multifinality, Biotypes, and Precision Medicine in Psychosis Risk Youth

Association for Psychological Science (APS)

Washington DC, 2019

Symposium: Motor dysfunction as a research domain in mental disorders: advances, challenges, and the future

Motor dysfunction and the psychosis prodrome

World Congress of Biological Psychiatry, Vancouver 2019

Chairs: Vijay Mittal, Sebastian Walther

Speakers: Vijay Mittal, Sebastian Walther, Jeff Dasdalakis, Christoph Mulert

Symposium: Motor dysfunction as a research domain in mental disorders: advances, challenges, and the future

Motor dysfunction and the psychosis prodrome

World Congress of Biological Psychiatry, Vancouver 2019

Speakers: Vijay Mittal, Dusan, Hirjak, Katharina Kubera, Christian Wolf

Symposium: Quantification of Behavior for Mental Health Using Digital Technology

Society for Research in Psychopathology, 2018

Indianapolis, IN

Presenters: Laura Germaine, Laura Tully

Discussant: Vijay Mittal

Symposium: Identification of Risk Factors for Psychosis from In-Utero Through Young Adulthood, Patterns Abnormal Motor Behavior in Clinical High-Risk Individuals Indicate Distinct Etiological Pathways for Psychosis

Society for Research in Psychopathology, 2018

Indianapolis, IN

Co-Presenters: Lauren Ellman, Nicole Karcher, Vijay Mittal

Discussant: Deanna Barch

Symposium: Novel developments in psychosis screening and early intervention

Society for International Research in Schizophrenia, 2019

Florence, Italy

Co-Presenters: Cheryl Corcoran, Jim Waltz, Pat McGorry, Vijay Mittal

Invited Grand Rounds: Psychosis Risk: Biomarkers and Treatment Development

University of Illinois Chicago, Psychiatry, May 19, 2018

Host: Ed Cook

Invited Talk: Psychosis Risk and Policy: Basic Science to Public Health

Institute for Policy Research, Northwestern University, Fall 2017

Vijay Mittal

Invited Talk: Lake Forest College,

Current Advances in Psychology Colloquium, Winter 2018

Lecture on psychosis research for neuroscience and psychology undergraduate majors.

Host: Matt Kelley

Symposium: Aerobic exercise across the phases of schizophrenia: Neural, cognitive, symptomatic and functional impact

Society for Research in Psychopathology, Denver 2017

Chair: Keith Nuechterlein, Speakers: Mittal, Joseph Ventura, David Kimhy

Symposium: Motor dysfunction in schizophrenia disorders and beyond: advances, challenges, and future directions

World Congress of Psychiatry, 2017

Berlin

Co-Presenters: Dusan Hirjak, Vijay Mittal (*Tina Gupta), Robert Christian Wolf, Sebastian Walther

Symposium: Social interaction challenges: the nonverbal communication deficits in psychosis

World Congress of Psychiatry, 2017

Berlin

Co-Presenters: Sebastian Walther, Vijay Mittal (*Tina Gupta), Mary Lavelle, Wiepke Cahn, Rose McCabe

Invited Departmental Colloquium: Translational approaches to clinical science for high-risk adolescents

Purdue University

Host: Daniel Foti

Invited Symposium:

Early Detection and Targeted Intervention for Youth at Risk for Serious Psychopathology:

Translating Basic Research to Practical Implementation

Brookstone Conference: Northwestern University

Meeting the Challenges of Emerging Mental Illness, 2016

Speakers: Mittal, Reinecke, Goulding, Smoth, Cicchetti, Klodnick, Fagan, Cronenwett, McGorry

Invited Address: Markers of Basal Ganglia and Cerebellar Dysfunction in Early Psychosis

Johns Hopkins University, 2017

Baltimore

Invited Address: Early Career Award Address: Why motor behaviors are important for understanding, detecting, and treating psychotic disorders

Society for Research in Psychopathology 2016

Baltimore

Symposium: Gesture Behavior in Psychotic Illness

Society for International Biological Psychiatry, 2017

Copenhagen

Co-Presenters: Sohee Park, Sebastian Walther, Ben Straube, Vijay Mittal (*Derek Dean)

Symposium: Cerebellar Abnormalities Across Psychiatric Illness

Society of Biological Psychiatry (SOBP), 2016

Atlanta, GA

Co-Presenters: Deanna Barch, William Hetrick, Jessica Bernard

Symposium: Back to the Hippocampus: Investigating Hippocampal Abnormalities in Early Psychosis

Society for International Research in Schizophrenia, 2016

Florence, Italy

Co-Presenters: Mary Cannon, Anthony David, Ana Calvo

Symposium: Movement Disorders: A Non-Mental Core Symptom of Psychotic Disorders and the Importance of Instrumental Screening
Society for International Research in Schizophrenia, 2016
Florence, Italy
Co-Presenters: Sebastian Walther, Peter Van Harten, Jim Van Os

Grand Rounds: Novel treatments in the psychosis Risk Period
Northwestern Psychiatry, 2015
Northwestern University

Invited Presentation: Hippocampal shape changes in the psychosis prodrome; normative and pathological developmental influences.
Department of Psychology, 2015
University of Illinois, Chicago

Invited Presentation: Translational Clinical Science in the Psychosis Risk Period
Department of Psychology, 2014
Northwestern University

Symposium Presentation: Verbal and nonverbal communication deficits in schizophrenia: Gesture Mismatch and lexical retrieval gestures in the psychosis prodrome
European Congress of Schizophrenia Research
Berne, Germany
2015
Speakers: Mittal (*Derek Dean), Walther, Kircher, Straube

Symposium Presentation: Translational Clinical Science in the Psychosis Prodrome
Early Career Symposium
Society for Research in Psychopathology, 2014
Evanston, IL
Speakers: Mittal, Hicks, Sellbom, LeMoult

Invited Colloquium: Translational Science in the Psychosis Prodrome
Emory University
Atlanta, GA, 2014
Speaker: Mittal

Invited Presentation: Paper Session: Schizophrenia
Society for Research in Psychopathology (SRP)
Oakland, CA 2013
Speakers: Levy, Orr, Wynn, Keane, Lewandowski
Chair: Vijay Mittal

Symposium: Mittal, V.A. Movement Abnormalities Across the Psychosis Continuum, A Tribute to Elaine Walker.
Association for Psychological Science (APS)
Washington DC, 2013

Co-Presenters: Michael Green, M.D., Deborah Walder, Ph.D., Elaine Walker, Ph.D.

Invited Presentation: Frontal subcortical dysfunction and the progression of dyskinesia in adolescents at ultra-high risk for psychosis.

Mind Research Network (MRN)

New Mexico, 2013

Invited Talk: Vulnerability characteristics, the motor system, and high-risk youth

Eastern Psychological Association (EPA)

New York, 2013

Symposium: Spontaneous Dyskinesia Across a Psychosis Continuum

International Early Psychosis Association (IEPA)

San Francisco, 2012

Speakers: Vijay Mittal, Danny Koren, Alana Scully, Larry Seidman, Helene Barder, Christine Hooker

Chair: Larry Seidman, Barbara Cornblatt

Invited Presentation: White-matter correlates of abnormal motor behaviors in psychosis

University of Indiana Bloomington (2012)

Clinical Science Colloquium

Hosts: William Hetrick, Jerilyn Kent

Grand Rounds: Movement Abnormalities and Prodromal Research

University of Colorado Denver, Anschutz Medical Campus

Denver, Colorado, 2011

Host: Robert Freedman, MD (Chair of Psychiatry)

Symposium: Brains Award Address: Adolescent neural development and risk for psychosis

Society for Neuroscience

Washington DC, 2011

Chairs: Thomas Insel, Kathleen Anderson

Symposium. Neurodevelopmental precursors to schizophrenia: Evidence of risk from womb to adolescence.

Society for Research in Psychopathology

Seattle, Washington, 2010

Co-presenters: Elaine Walker, Vijay A. Mittal, Lauren Ellman, Scott Schobel

Invited Speaker. Biomarkers and Adolescent Maturation in the Prodromal Stage.

Psychology Department Colloquia,

State University of New York, Stony Brook (November 2009), University of Iowa (January 2010),

University of South Carolina, (November 2009), University of Colorado Boulder (Feb, 2009),

University of Missouri (December, 2009)

Invited Speaker. Community based mental health and early psychosis

29th Nordic Congress of Psychiatry

Stockholm Sweden, (September, 2009)

Speakers: Vijay A Mittal, Erik Simonsen, Lena Flyckt

Chair: Nils Linefors, Christina Hultman

Invited Speaker for Live teleconference and webcast for Schizophrenia E-Journal Club.

Longitudinal progression of movement abnormalities in relation to psychotic symptoms in adolescents at high risk for schizophrenia.

Live teleconference and webcast for Schizophrenia E-Journal Club (August 2008).

Network for Continuing Medical Education (NCME):

Moderator: Dr. John M. Kane

Clinical Neuroscience Rounds. Putative markers of biological risk and schizophrenia.

University of California Los Angeles, 2008

Department of Psychiatry and Biobehavioral Sciences

Instructors: Melita Daley, MD, Tyrone Cannon, Ph.D.

Schizophrenia Scholar Consortium. Motor function and psychotic disorders.

University of California Los Angeles, 2008

Department of Psychology.

Instructor: Constance Hammen Ph.D., Cindy Yee-Bradbury, Ph.D., Keith Nuechterlein, Ph.D.

B. Community Lectures

TEDx NU

[Can Exercise combat emerging mental illness?](#)

Spring 2021

Writers Theatre

Nature vs. Nurture Presentation

Spring 2019

Compass, Northbrook

Translating Science to Practice in the Psychosis Risk State

August 2017

Compass, Chicago

Translating Science to Practice in the Psychosis Risk State

July 2017

North shore Community Hospital Grand Rounds

Early Detection and targeted intervention for individuals at high-risk for schizophrenia

March 2017

Host: Fred Miller MD

Department of Child and Family Service (DCFS)

Department of Recruitment & Resources

ADAPT Program

November 2016

Thresholds

Psychosis Risk Syndromes

March 2017

Transition Action Network

Recognizing signs and symptoms/helping foster transition from high school
Co-Presenters: Marc Fagan
December 2016

Loyola University Clinic

Psychosis Risk Syndromes
University Clinic Rounds
Host: Daniel-De Boer
October 2016

Northwestern University Active Minds

Stigma Panel
Evanston
Co-Presenters: Robin Nusslock, Katie Sanford, Bria Royal
Spring 2016

Community Open House: Behavioral Health Resources for Families

University of Colorado
ADAPT services and Schizophrenia
Boulder, CO 2013
Co-Presenters: Chhabildas, Schneck, Dimidjian, Hepburn, Taylor

Symposium: Your Brain on Art: The Brain and Music

Boulder Museum of Contemporary Art (BMoCA)
Boulder Colorado, 2013
Co-Presenters: Vijay Mittal, Scott O'Neil, Otis Taylor

Community Awareness of Ultra High-Risk Syndromes for Schizophrenia

Boulder High School
Fairview High School
April 13

Symposium: Your Brain on Art: Neuroaesthetics

Boulder Museum of Contemporary Art (BMoCA)
Boulder Colorado, 2012
Co-Presenters: Vijay Mittal, William Stoehr, Lew Harvey

Invited Talk: Early recognition of a schizophrenia risk-syndrome

Denver Health School Based Health Centers (school based mental health therapists in DPS)
Denver, Colorado, 2012
Host: Jenifer Koch

Invited Talk: The schizophrenia prodrome and CU Boulder's ADAPT program

Denver Health, Adolescent in-patient unit
Denver, Colorado, 2011

Host: Jonathan Kusumi (Director of Inpatient Unit)

Invited Talk: The schizophrenia Prodrome and CU Boulder's ADAPT program
Boulder Community Hospital, Adult in-patient unit
Boulder, Colorado, 2011
Host: Peggy Caspari (Director of Inpatient Unit)

Symposium: Your Brain on Art: The neuroscience of improvisation
Boulder Museum of Contemporary Art (BMoCA)
Boulder Colorado, 2011
Co-Presenters: Vijay Mittal, William Stoehr, Richard Cummings, Robert Sher-Machherndl

C. Career Development Lectures/Workshops (select examples)

2023 Northwestern Provost Office Sponsored Presentation: Perspectives on making the transition from associate to full professor rank.
2022 SRP, Career Development Panel- Promoting research productivity while balancing work/life considerations.
2017 Northwestern Society Biology & Health Cluster, interdisciplinary research and job search advice
2016 Northwestern Graduate Student (PGSC): Career Development Lecture
2016 Northwestern Postdoctoral Student Consortium: Early Career Advice Lecture

D. Other

Staff Research Talk- The ADAPT lab Research Program
University of Colorado Boulder
January 2013

E. Conference Participation

2026 SIRS, Florence
2025 SRP, Los Angeles
2025 SIRS, Chicago
-DISCOURSE Satellite Meeting (host)
2024 Society for Research in Psychopathology, Montreal
2023 Society for Research in Psychopathology, St. Louis
2023 SIRS, Toronto
2023 Society for Biological Psychiatry, San Diego
2021 SIRS, Virtual
2021 Biological Psychiatry, Virtual
2021 European Congress of Schizophrenia Research, remote
2021 Society for Research in Psychopathology, Remote
2019 World Congress of Biological Psychiatry, Vancouver
2018 Society for Research in Psychopathology, Indianapolis
2018 Society for Biological Psychiatry, Manhattan
2018 Society for International Schizophrenia Research, Florence
2017 World Congress of Psychiatry, Berlin Germany
2017 World Conference of Biological Psychiatry, Copenhagen

2017	International Congress for Schizophrenia Research, San Diego, California
2016	Society for Biological Psychiatry, Atlanta
2016	Society for Research in Psychopathology, Baltimore
2016	Society for International Schizophrenia Research, Florence
2015	European Congress of Schizophrenia Research, Berlin Germany
2015	International Congress for Schizophrenia Research, Colorado Springs
2014	Society for Research in Psychopathology, Chicago
2013	Society for Research in Psychopathology, Oakland
2013	Association for Psychological Science, Washington D.C.
2013	International Congress for Schizophrenia Research, Orlando Florida -International Prodromal Research Network, (IPRN)
2013	Eastern Psychological Association, New York
2012	International Association for Early Psychosis (IEPA), San Francisco
2012	Society for Research in Psychopathology, Ann Arbor
2012	Society for Biological Psychiatry, Philadelphia
2011	Society for Neuroscience, Washington DC
2011	International Congress for Schizophrenia Research, Colorado Springs -International Prodromal Research Network, (IPRN)
2011	Society for Research in Psychopathology, Boston
2010	Society for Research in Psychopathology, Seattle, Washington
2009	29 th Nordic Congress of Psychiatry, Stockholm, Sweden
2009	Society for Research in Psychopathology, Minneapolis, Minnesota
2009	International Congress for Schizophrenia Research, San Diego, California -International Prodromal Research Network, (IPRN)
2008	Society for Research in Psychopathology, Pittsburg, Pennsylvania
2007	Society for Research in Psychopathology, Iowa City, Iowa.
2006	Society for Research in Psychopathology, San Diego, California
2005	Georgia Psychological Association; Atlanta, Georgia
2004	Society for Research in Psychopathology; St. Louis, Missouri
2003	Association for Psychological Science; Atlanta, Georgia
2003	Society for Research in Psychopathology; Montreal, Canada

F. Abstracts from Conference Poster Presentations:

Available upon request

Experience as a Mentor

List of Current Academic Positions from Previous Trainees

Tina Gupta, Ph.D., Assistant Professor, Department of Psychology, University of Oregon
Trevor Williams, Ph.D., Assistant Professor, Department of Psychology, Kent State University
Raffles Cowan, Ph.D., Assistant Professor, Department of Psychology, Michigan State University
Katherine Damme, Ph.D., Assistant Professor, UT Dallas Psychology
Jessica Lunsford-Avery, Ph.D., Associate Professor in Psychiatry and Behavioral Sciences, Duke
Jessica Bernard, Ph.D., Professor, Department of Psychology, Texas A&M
Joseph Orr, Ph.D., Associate Professor, Department of Psychology, Texas A&M
Emily Carol, Ph.D., Clinical Director, Support, Treatment and Resilience (STAR) Program,
Instructor in Psychology, Harvard Medical School
Teresa Vargas, Ph.D., Assistant Professor, Department of Psychology, Colorado State

Juston Osborne, Ph.D., Assistant Professor, Department of Psychology, Washington University
Andrea Pelletier-Baldelli, Ph.D., Clinical Assistant Professor, Department of Psychiatry, UNC
Chapel Hill

Zachary Millman, Ph.D., Director of Research, Support, Treatment and Resilience (STAR) Program
Instructor of Psychology, Mclean Harvard Medical School

Mittal Laboratory Graduate Students Masters and Dissertation Projects:

2024- Dissertation Franchesca Kuhney, Social media use and negative symptoms in psychosis risk
2024- Dissertation Ivanka Ristanovic, Stress and symptom content in psychosis risk: an experienced sampling approach
2024- Dissertation Alexis Porter, Machine learning and precision in predicting psychosis.
2024- Dissertation Katia Zalkind- Semantic Priming and Psychosis Risk
2022- Dissertation - Juston Osborne- LRP and motor signs in psychosis risk
2022- Dissertation- Teresa Vargas- Stressors across development, and risk for psychosis.
2021- Dissertation - Tina Gupta- Emotional blunting and youth at risk for psychosis
2022- Dissertation- Raffles Cowan- Self-identity, narrative, and risk for psychotic disorders
2019- Masters Advisor Ivanka Ristanovic, Life-event stress and risk for psychosis across adolescence.
2018 - Masters Advisor, Juston Osborn, Temporal bisection, cerebellar dysfunction and psychosis risk.
2018- Masters Advisor, Vargas, Hippocampal subfields across psychosis risk and schizophrenia stages.
2018- Dissertation Advisor, Emily Carol, Longitudinal evaluations of stress systems in youth at risk for developing psychotic disorders
2018- Dissertation Advisor, Derek Dean, Movement Abnormalities, Frontal-subcortical Structure and Function, and Youth at Risk for Psychosis
2017- Masters Advisor, Tina Gupta, Brain stimulation and motor learning in psychosis risk individuals.
2017- Dissertation Advisor, Andrea Pelletier, Do youth at risk for psychosis like being liked? An fMRI investigation of social reward processing
2015- Masters Advisor for Emily Carol (Mentor: Vijay Mittal): Cortisol, self-concept and expressed emotion in high-risk youth.
2014- Masters Advisor for Derek Dean (Mentor: Vijay Mittal): Cerebellar and Striatal Contributions to Velocity Scaling Deficits in Youth at Ultra High-Risk for Psychosis: A Resting-State Approach
2012/2013- Dissertation for Jessica Lunsford (Mentor: Vijay Mittal): Sleep Dysfunction in Adolescents at High-Risk for Psychosis
2012/2013- Masters Advisor for Andrea Pelletier (Mentor: Vijay Mittal): The Neural Basis of Social Processing Impairments in Adolescents at High Clinical Risk for Psychotic Disorders

Awards for Postdoctoral Students:

SIRS Early Investigator Award 2025, Victor Pokorny
SIRS Early Investigator Award 2025, Danielle Pratt
Brain and Behavior Research Foundation, NARSAD Young Investigator Award, Danielle Pratt 2025
NRSA Trevor William, 2023
SIRS travel award Trevor Williams, 2023
SIRS travel award Kate Damme, 2020
Northwestern University NICS Data Science Initiative Award, Emily Cibelli, 2016

Brain and Behavior Research Foundation, NARSAD Young Investigator Award, Jessica Bernard, 2014

ICOSR Young Investigator: Jessica Bernard, 2015

NIMH National Research Service Award: Jessica Bernard, 2013-2015

Awards for Graduate Students:

APS Rising Star Award 2025, Tina Gupta

SIRS Early Investigator Award 2025, Luz Maria Allende Serra

SIRS Early Investigator Award 2025, Jessica Fattal

SIRS Early Investigator Award 2025, Vanessa Zarubin

Luz Maria Allende Serra, SRP DEI Scholarship award, 2024

NSF- honorable mention, Franchesca Kuhney, 2021

SIRS Early Career Award, Franchesca Kuhney, 2021

T32 Fellowship, Training Program in Neuroscience of Human Cognition, Juston Osborne, 2019-2020

NRSA Tina Gupta 2019-2022

NRSA Teresa Vargas 2019-2022

SNAP talk at SRP, Teresa Vargas, 2019

ERP Camp, Juston Osborne, 2019

Ford Fellowship, National Academy of Science, Teresa Vargas, 2019

DevSci Pilot Funds Award, Jaqueline Stephens, 2018

DevSci Pilot Funds Award, Teresa Vargas, 2018

Dosier/Muenzinger Award for Translational Research, Emily Carol, 2018

University of Michigan, Neuroimaging training fellowship, Tina Gupta, 2018

T32 Fellowship, Training Program in Neuroscience of Human Cognition, Tina Gupta, 2017-2019

Beverly Sears Graduate D, Emily Carol, 2017

Human Brain Mapping Abstract Merit Award: Andrea Pelletier, 2016

Society, Biology, and Health Cluster Fellowship, Northwestern University: Tina Gupta 2016

Peter G. Ossorio Award, CU Boulder: Emily Carol, 2016

Human Brain Mapping Abstract Merit Award: Derek Dean, 2015

NIMH National Research Service Award: Andrea Pelletier, 2013-2016

Awards for Mittal Lab Undergraduate Students:

Julia Paska, Travel Grant, 2024/25

Ishika Aurora, NEURON, 2024/25

Isha Nayak, SURG, 2024

Julianna Schuch, SURG, 2024

Honors in Psychology, Morgan Tinsley, 2024

Emily Park, SURG 2024

Taera Kaka, SURG 2024

Natalie Larson, SURG 2024

Julianna Schuch, SURG 2024

Isha Nayak, SURG 2024

Sophia Talwalkar, SURG 2023

Ishika Arora, SURG 2023

Peirong She, WCAS Summer Grant 2023

Morgan Tinsley, Honors in Psychology 2024

Daba Hubbell, 2021 SURG

Carson Knoer, URG AY 19/20, Summer 2020
Paia Amelio URAP Summer 2020
Jordyn Ricard, Summer URG 19/20
Jordyn Ricard, Top Social Science Presentation at NU Undergraduate Research Exposition, 2020
Amy Lieberman, Accepted to NIMH IRTA 2018-present (Dickenson)
Defne Cezayirli, Accepted to NIMH IRTA 2019 (Fedorova)
Carson Knoer, URPA Summer 2019
Jordyn Ricard, Poster Spotlight Award- Society for Affective Sciences (SAS), Winter 19
URG, Alara n Ozsan, 2019, Summer 2019
URG, Defne, Cezayirli, 2019, Summer 2019
Honors in Neuroscience, Defne Cezayirli, 2019
Honors in Psychology, Kim Rowgani, 2019
Honors in Psychology, Alara Ozsan, 2019
Honors in Psychology, J. Maloney, 2018
Honors in Psychology, Amy Lieberman, 2018
Amy Lieberman, Undergraduate research and arts exposition, presentation invitee, Spring 2018
Alara Ozsan, Undergraduate Research Award (URG), 2018/2019
Defne Cezayirli, Undergraduate Research Award (URG), 2018/2019
Kimberly Rowghani, Weinberg College Summer Research Grant, 2017
Amy Lieberman, Undergraduate Research and Arts Exposition Poster, 2017
Grishma Reddy, Undergraduate Research Award (URG), Summer 2017/2018
Amy Lieberman, Undergraduate Research Award (URG), 2017/2018
Isha Bhutada, Undergraduate Research Assistant Program (URAP), 2016/2017
Vicotria Steigerwald, Undergraduate Research Assistant Program (URAP), 2016/2017
Grishma Reddy, Undergraduate Research Assistant Program (URAP), Summer 2016
Jaqueline Maloney, Undergraduate Research Award (URG), Summer 2016; *Fletcher Prize Finalist*
Courtney Russell, 2015, Undergraduate Research Opportunity Program (UROP)
Rae Newberry, 2014, Undergraduate Research Opportunity Program (UROP)
Olivia Russak, 2014, Undergraduate Research Opportunity Program (UROP)
Elise Hague, 2012, Independent Study Award
Kim Kramer, 2011, Undergraduate Research Opportunity Program (UROP)

Northwestern Undergraduate Honors Program

2024- Morgan Tinsley (Mentor Mittal)
2020- Jordyn Ricard (Mentor Mittal, Haase)
2020- Sophia Rodesky (Mentor Haase)
2019- Defne Cezayirli (Mentor Mittal)
2019- Kim Rowgani (Mentor Mittal)
2019- Alara Ozsan (Mentor Mittal)
2018- Jacqueline Maloney (Mentor Mittal)
2018- Amy Lieberman (Mentor Mittal)

CU Boulder Honors Program

2015- Olivia Russak (Mentor: Mittal)

Professional Service

Editorial Service

2019- Present	<i>Journal of Psychopathology and Clinical Science</i> (formally, <i>Journal of Abnormal Psychology</i> , Associate Editor
2014-2019	<i>Journal of Abnormal Psychology</i> , Consulting Editor
2020-Present	<i>Psychological Review</i> , Consulting Editor
2023- Present	<i>Schizophrenia Bulletin</i> , Associate Editor
2020-2023	<i>Schizophrenia Bulletin</i> , Managing Editor
2017-2020	<i>Schizophrenia Bulletin</i> , Assigned Editor

Professional Societies

2024-Present	President Elect, Society for Research in Psychopathology (SRP)
2025	SIRS, DISCOURSE Satellite Meeting, Chicago, Host
2024	Sustained Contributions to Social Justice in Psychopathology, Chair, (SRP)
2023	Mentorship Award Committee, Society for Research in Psychopathology (SRP)
2019-2024	Executive Board, Society for Research in Psychopathology (SRP)
2018-Present	Program Committee, International Early Psychosis Association (IEPA)
2018-Present	Program Committee, Society for International Research in Schizophrenia (SIRS)
2016-Present	Affiliation Committee Chair, Society for International Research in Schizophrenia (SIRS)
2016-Present	Publication Committee, Society for International Research in Schizophrenia (SIRS)
2014-Present	Diversity Committee (currently chair; 2019-Present), Society for Research in Psychopathology (SRP)
2011-Present	Newsletter Coordinator, Society for Research in Psychopathology (SRP)
2015	International Congress of Schizophrenia Research (ICOSR) Young Investigator mentor
2014	Smadar Levin Award Committee, Society for Research in Psychopathology (SRP)
2012-2013	Conference Program Committee, Society for Research in Psychopathology (SRP)

National Organizations

2018-Present	Building roads to inclusion and diversity in graduate education (Bridge Network), Northwestern Site Director
2014-2015	National Alliance for the Mentally Ill (NAMI) on Campus Faculty Advisor for CU Boulder

Northwestern University

2026	NNCI AI, Co-Lead Mental Health Perspective
2026	Faculty Honors Committee, Office of Provost
2025-present	Dean's Advisory group on Research Activities in WCAS
2025	NUCATS- Hub Liaison Team (HLT) Representative, Weinberg College
2022-present	NURTURE initiative, Brain and Behavior Community, Personnel Committee
2023-present	Department Chair, Psychology

2023 Faculty Development (Provost Office sponsored– workshop on moving to full professor))

2023 Department of Psychiatry, Search Committee Clinical Neuroscience Position

2022 Department of Psychiatry, Search Committee Clinical Neuroscience Position

2020-2022 Department of Psychology, Committee on Engagement (Chair: 2022)

2020-2022 Department of Psychology, Awards committee chair

2020- Present DevSci Diversity Committee

2018 Student Well-being task force

2018-2020 Office for Research Limited Submissions Advisory Committee

2017 Faculty Search Committee, Neuroscience, Department of Psychology

2017 Searle Teaching Mentor, Tawny Spinelli

2017-present Training Program in Neuroscience of Human Cognition (T32), Preceptor

2017-Present Institute for Innovations in Developmental Sciences (DevSci) Training Core Co-Director (with Molly Losh, Ph.D. and Craig Garfield M.D.)

2016-Present DevSci, Steering Committee

2016-Present Undergraduate Psychological Association (UPA) Faculty Advisor

2015-Present Diversity Committee, Department of Psychology
 -Sneak Peek Director
 - Provost grants for Faculty Innovation in Diversity and Equity

University of Colorado Boulder

2014 Search Committee, Clinical Administrative Staff

2014 Search Committee, Cognitive Neuroscience Faculty

2013-2014 Strategic Planning Committee

2013-2014 Space Committee

2012-2014 Undergraduate Honors Program Committee

2012 Search Committee, Clinical Faculty

2012 Graduate education workgroup.

2012 Undergraduate education workgroup
 -Subgroup for Research Methods and Statistics

2011 Faculty Meeting Secretary

Student Research Committees (Note: Mittal lab students noted in separate section above)

Undergraduate Honor's Projects

Northwestern University

2024- Beckett Sands (Haase)

2024- Lillian Fu (Haase)

2021- Sophia Rodesky (Mentor Haase)

2020- Klaudia Konieczny (Mentor Haase)

2018- Olivia shay (Haase)

2018- Emily Friaser (Zinbarg)

2018- Victoria Steigerwald (Zinbarg)

University of Colorado Boulder

2013- Amanda Walker (Mentor: Mark Whisman): Asian Americans and Latino Americans: Interracial Couple Functioning in a National Sample

2013- Joseph Malicke (Mentor: Bernadette Park): Gender Ideology and Evaluations of a Male versus Female Target: Effects of Emphasizing versus Downplaying Gender Differences
2013- Ariel Jensen (Mentor: Yuko Munakata): Relationship between BDNF genotype, hippocampus volume, and anxiety
2013- Roxanne L. Ross (Mentor: McGraw): Don't worry, it's not real: How humor and violation severity varies with hypothetical psychological distance.
2013- Jeff Kamp (Mentor: Louise Silvern): Perceived Social Support and Individual Differences in Childhood Traumatic Grief
2013- Emmie Matsuno (Mentor: Van Boven): Attitude Extremity and Party Identification Strength on Perceived Polarization
2013- Ross Kaslow (Mentor Angela Bryan): Cognition and Stress between Groups of Drinkers and amounts of Exercise
2012- Tess Adams (Mentor: Matthew Keller): Judging a Book by Its Cover: Are First Impressions Accurate?

Masters Defense

2025- Yuki Hann (Reber): Learning with rhythm: the advantage of metrical rhythm in implicit motor sequence learning.
2025- Vincent Paquin (Jai Shah, McGill): Adolescent media use and its associations with psychotic experience
2019- Jeremy Jabbour, Sexual arousal patterns of mostly heterosexual men (Baily)
2019- Ann Carol, Risk for Bipolar Spectrum Disorders Associated with Positive Urgency and Orbitofrontal Cortical Grey Matter Volume (Nusslock)
2019- Ariela Kaiser (Shankman)
2016- Natasha Hansen (Hutchinson) Neural correlates of risky sex and response inhibition in adolescents
2015- Katherine Damme (Nusslock) Nucleus Acumens Connectivity Relates to Trait Risk for Hypomania: A Structural and Functional Analyses of Hypomanic Risk Factors
2014- Briana Robustelli (Whisman) Marital, Family, and Friend Relationship Quality: Associations with Mental and Physical Health Outcomes
2014- Daniel Leopold (Willcutt) Evaluating the construct validity of adult ADHD and SCT among college students
2013- Hollis Karoly (mentor: Hutchinson) Preliminary functional MRI results from a combined stop-signal/alcohol-cue task
2013- Rachel Thayer (mentor: Hutchinson) Alcohol and marijuana use interact with associations between structural and functional connectivity among high-risk adolescents

Comprehensive Exams

2024 Yuki Hann, (Paller)
2023 Gayathri Subramanian (Paller)
2022 Diana Perez Revera (Gratton)
2020- Brian Kraus (Gratton)
2017- James Glazer (Mentor Nusslock), Chair: Mittal
2016- Katherine Damme (Mentor: Nusslock)
2015- Coral Cabrera-Montalvo (Mentor: J. Stitzel) Evaluating schizophrenia related behaviors in mice with the CHRNA5 D398N human polymorphism
2014- Christopher Hawkey (Mentor: Miklowitz)
2014- Daniel Johnson (Mentors: Soo Rhee, Mark Whisman)

2014- Mikaela Kinnear (Mentor: Erick Willcutt)
2014- Ashley Smith (Mentor: Soo Rhee)
2013- Ryan Newsom (Mentor: Serge Campeau)
2013- Sarah Wu (Mentor: Erick Willcutt)
2012- Jenifer Felder (Mentor: Sona Dimidjian)
2012- Chad Osterlund (Mentor: Robert Spencer)

Dissertation Projects

2024-2025 Gayathri Subramanian (Paller)
2022- Dissertation Proposal- Jabbour- Factor structure of BDSM
2022- Miranda Munoz (Chair Mittal).
2019- Zach Millman (Mentor: Schiffman, UC Irvine), Facial affect identification errors and risk for schizophrenia spectrum illnesses
2018- Tatiana Karpouzian (Mentor: Reiley) Reduced task-evolved response on an executive control task among individuals across the psychosis spectrum
2018- Avante Smack (Mentor: Jennifer Tackett): Racial/Ethnic Differences in Values, Personality, and Psychopathology in Youth
2018- Katherine Damme (Nusslock)
2017 Chris Hawkey (Mentor: Miklowitz): Risk factors for suicide in pediatric bipolar disorder.
2016- Kevin Hsu (Bailey)
2016- Mia Nunez (Mentor: Zinbarg); Chairs: Zinbarg, Mittal
2016- Christina Young (Mentor: Nusslock)
2015- Sarah Wu (Mentor: Erick Willcutt): Measurement and Classification Issues in Mathematics and Reading Disorders
2015 Ryan Newsom (Mentor Campeau): Endogenous cannabinoid regulation of the HPA axis and of neuroendocrine reactivity to acute and repeated stress
2014- Daniel Johnson (Mentors: Soo Rhee, Mark Whisman): Rumination as a transdiagnostic risk factor for psychopathology
2014- Mikaela Kinnear (Mentor: Erick Willcutt): Social functioning in DSM-IV Attention-Deficit/Hyperactivity Disorder: A multi-dimensional examination of adolescents and young adults
2014- Ashley Smith (Mentor: Soo Rhee) Longitudinal examination of genetic and environmental influences on the association between temperament and self-restraint in toddlerhood and executive function abilities in late adolescence
2013: Chad Osterlund (Mentor: Bob Spencer) Negative feedback control over the hypothalamic-pituitary-adrenal axis response to stress is a function of temporal, spatial and physiological actions of corticosterone.
2012- Jenifer Felder (Mentor: Sona Dimidjian): Targeting Barriers to Care for Pregnant Women at Risk for Depression: Examining the Role of Stigma and the Feasibility of a Web-Based Depression Prevention Program

Consultancies

Takeda Pharmaceuticals (2016-2017), Meeting with drug development team to discuss research-surrounding assessment of treatment outcome measures.

Teaching Experience

Curriculum Development

2015-Present

Northwestern: *Advanced Graduate Psychopathology 421/497; Research Methods in Schizophrenia 357/497; Psychopathology 303; Proseminar -Biological and Cognitive Bases of Behavior 401; Proseminar- Social and Emotional Bases of Behavior 401:* Please see section below for course detail.

2010-2015

University of Colorado Boulder: *Adult Psychopathology 5433; Abnormal Psychology 4303; Psychopathology 3313:* Please see section below for course details.

Courses

2023-Present

Northwestern University, Department of Psychology, Graduate Proseminar 401-1/401-2 (graduate). I teach two sections of the Graduate Proseminar, designed to introduce new graduate students to the different concepts and topics central to innovative and impactful psychological science.

2016-Present

Northwestern University, Department of Psychology, Advanced Graduate Psychopathology 421/497 (graduate). A graduate course designed to provide in-depth coverage into the pathogenesis, treatment and clinical presentation of serious mental illness. This course is a joint graduate class, including students from both the Feinberg and Weinberg clinical graduate programs. Students work closely with me to complete a “letter to the editor” writing assignment in which they address current issues relating to a respective research domain and learn about journal writing and peer review.

2016-Present

Northwestern University, Department of Psychology, Research Methods in Schizophrenia 357/497 (undergraduate/graduate). An in-depth experiential learning environment. Students rotate between learning about methods such as neuroimaging, psychophysiology, eye-tracking, and tDCS, visiting labs on campus that are currently employing these methods (including observation and active learning experiences), understanding how these methods improve understanding of schizophrenia, and working in teams to design multi-modal research projects. The class culminates in a research proposal and presentation.

2016-Present

Northwestern University, Department of Psychology, Psychopathology 303 (undergraduate). A large undergraduate course (100 students) designed to cover a variety of the major psychiatric disorders, causes, and empirically supported treatments.

2013-2014

University of Colorado Boulder, Department of Psychology and Neuroscience, Abnormal Psychology 4303. A large undergraduate course (150 students) designed to cover a variety of the major psychiatric disorders, causes, and empirically supported treatments.

2011-2015

University of Colorado Boulder, Department of Psychology and Neuroscience, Adult Psychopathology 5433. A graduate course designed to provide in-depth coverage into the pathogenesis and clinical presentation of mental illness.

- 2010-2011 *University of Colorado Boulder, Department of Psychology and Neuroscience, Psychopathology 3313.* A large undergraduate course designed to cover a variety of psychiatric disorders/treatments in greater depth than a prototypical Abnormal Psychology seminar. The course also includes weekly lab section and focuses on in-class exercise and discussion.
- 2009 *University of California Los Angeles, Department of Psychology, Advanced Research Seminar, PSYC 199 I & II:* (Instructor Cannon, Supervisor Mittal). In this series, advanced undergraduate students work closely with a teacher to design and develop individual research projects. The students are mentored throughout the process of conducting literature reviews, designing studies, analyzing data, and presenting research.
- 2008 *University of California Los Angeles, Department of Psychology, Undergraduate Research Seminar, PSYC 196:* (Instructor Cannon, Supervisor Mittal). A course designed to provide a small group of undergraduate students with intensive hands-on research training and specialization within specific topics in clinical neuroscience. Students develop advanced skills (e.g., Magnetic Resonance Imaging ((MRI): delineating structures; coding movements and nonverbal behavior).
- 2005 *Emory, Co-instructor – Research Methods:* Teaching a weekly lab in which students completed three major research projects and wrote a formal research paper for each project. I taught scientific writing in APA style and applications of research methodology techniques.
- 2004 *Emory University, Teaching Assistant – Statistics –*Designing tests, lectures, and running a weekly lab that involved teaching students to use a statistical package to complete assignments.

Select Guest Lectures

Northwestern

- 2023 *Northwestern University, Department of Communications, Development, Guest Lecture, Molly Losh*
- 2019 *Northwestern University, Dedre Gentner, Motor Markers in psychosis, CogSci Prosem*
- 2017 *Northwestern University, Motor pathology and schizophrenia: A brain biology perspective, Neuroscience 206, Host: Segraves*
- 2016/17 *Northwestern University, Psychology Proseminar, Lectures on Schizophrenia and motor pathology*
- 2017 *Northwestern University, Department of Communications, Development, Guest Lecture, Molly Losh*
- 2016 *Northwestern University, Undergraduate Cognitive Science Guest Lecture, David Rapp*
- 2016 *Northwestern Active Minds, Stigma and Schizophrenia Spectrum Disorders*
- 2016 *Northwestern University, Graduate Pro-seminar, Psychosis*

University of Colorado Boulder

- 2014 *University of Colorado Boulder, Department of Psychology and Neuroscience*, lecture for Linda Watkins, Neuroscience Grand Round Series
- 2015 *University of Colorado Boulder, Department of Psychology and Neuroscience*, lecture for June Gruber, Human Emotion
- 2014 *University of Colorado Boulder, Department of Psychology and Neuroscience*, lecture for Tor Wager, Affective Neuroscience Guest Lecture (NRSC4015)
- 2013 *University of Colorado Boulder, Department of Psychology and Neuroscience*, Guest lecture for Kent Hutchinson, Abnormal Psychology (Spring Semester). Schizophrenia
- 2013 *University of Colorado Boulder, Department of Psychology and Neuroscience*, Guest lecture for Joanna Arch, Psychopathology (Spring Semester). Schizophrenia
- 2012 *University of Colorado Boulder, Department of Psychology and Neuroscience, Adult Psychotherapy 7673 (Fall Semester)*: Guest lecture for graduate class on pharmacological and psychosocial treatment for schizophrenia spectrum illness.
- 2012 *University of Colorado Boulder, Department of Psychology and Neuroscience, Developmental Psychopathology (Guest Lecture for Erik Willcutt, Ph.D.)*. Prenatal, child, and adolescent neurodevelopment.
- 2011 *University of Colorado Boulder, Department of Psychology and Neuroscience, Introduction to Neuroscience: (Spring Semester)* Two guest lectures for undergraduate class on etiological factors of psychosis for Dr. Ryan Bachtell.
- 2010 *University of Colorado Boulder, Department of Psychology and Neuroscience, Adult Psychotherapy 7673 (Fall Semester)*: Guest lecture for graduate class on pharmacological and psychosocial treatment for schizophrenia spectrum illness.

Related Training Experiences

- 2006 – 2007 *National Science Foundation (NSF) Fellowship: Problems and Research to Integrate Science and Mathematics (PRISM)*: An NSF funded program developed to apply active learning strategies in teaching science. The fellowship included bi-weekly lectures implementing science projects in a 7th grade science class in the metropolitan Atlanta area.
- 2006 *National Science Foundation (NSF)- Problems and Research to Integrate Science and Mathematics (PRISM)*: An intensive summer course designed to help teachers develop active and problem-based learning skills. The course was designed to teach PRISM participating faculty to develop courses, as well as learn the necessary skills to implement problem-based learning.
- 2003-2004 *Emory University Teaching Practicum*. Weekly seminar with a faculty supervisor and other graduate teaching assistants surveying teaching strategies, active learning techniques, as well as addressed issues raised while teaching.
- 2003-2004 *Emory University Teaching Assistant Training and Teaching Opportunity Program (TATTO)*: A training series to develop teaching skills through classroom instruction and supervised experience. Includes a three-day course on

teaching, a semester-long Teaching Practicum course, supervised teaching experience, and guest lecturing for a large lecture class.

Clinical Experience

- 2014-Present **Licensed Clinical Psychologist**, Illinois #071.0100636; Colorado #psy.0004100
- 2010-Present **Clinical Supervisor**
- Graduate student supervision in comprehensive report writing, diagnostic interviews, and neuropsychological functioning assessment in adolescents with serious mental illness. I supervise between 3-5 students each semester.
- 2008-2010 **Postdoctoral Clinical Training**
David Geffen School of Medicine, Department of Psychiatry and Biobehavioral Sciences, Semel Institute for Neuroscience & Human Behavior and the Resnick Neuropsychiatric Hospital:
University of California Los Angeles
Supervisors: Carrie Bearden, Ph.D. Melita Daley, M.D., Tyrone Cannon, Ph.D.
Description: Advanced Clinical Diagnosis and Treatment of Serious Mental Disorders.
- 2007 - 2008 **Clinical Psychology Internship**
David Geffen School of Medicine, Department of Psychiatry and Biobehavioral Sciences, Semel Institute for Neuroscience & Human Behavior and the Resnick Neuropsychiatric Hospital:
University of California Los Angeles
Supervisors: Tyrone Cannon, Ph.D., Carrie Bearden, Ph.D., Mary O'Brien, Ph.D., Sandra de Silva, Ph.D. Cindy Pikus, Ph.D., David Rudnick, M.D.
Description: Predoctoral Clinical Psychology Internship: Adolescent Serious Mental Illness Track; Adult Eating Disorder Group therapy
- 2008 **Supervision**
Supervision and mentorship of Masters, Psy.D. and Ph.D. level externs and interns at UCLA, NPI in a case management and clinical diagnostic assessment, focusing on adolescent and serious mental health issues.
- 2006 - 2007 **Treatment Team Practicum**
Inpatient Unit, Department of Veterans Affairs Hospital, Atlanta
Supervisor: Ericka Duncan, M.D.
Description: Working with a multidisciplinary treatment team composed of a psychiatrist, pharmacologist, drug rehabilitation counselor, and a social worker. The team is charged with interviewing patients and then working to devise, coordinate, and implement clinical treatment and long-term care. The population consisted of individuals with severe psychopathology, (predominately schizophrenia, schizoaffective, PTSD and bipolar and major depressive disorders).

- 2002 - 2007 **Intern-Therapist Practicum**
Emory University Psychological Center, Emory University
Supervisors: Cynthia Messina Ph.D., Elaine Walker Ph.D., David Freides, Ph.D., Ann Abramowitz, Ph.D., Regina Pyke, Ph.D.
Description: Conducting cognitive behavioral therapy (CBT), interpersonal therapy, and emotionally focused therapy in a community outpatient clinic.
- 2002 – 2007 **Psychological and Neuropsychological Testing Practicum**
Emory University Psychological Center, Emory University
Supervisor(s): Cynthia Messina Ph.D., Elaine Walker Ph.D., David Freides, Ph.D., Ph.D., Anne Abramowitz, Ph.D.
Description: Conducting, interpreting, and writing comprehensive assessments for child, adolescent and adult psychological and neuropsychological testing.
- 2002 - 2007 **Adolescent Development and Psychopathology Practicum**
Affiliated with Emory University
Supervisor: Elaine Walker, Ph.D.
Description: Conducted clinical diagnostic interviews, personality assessment, and neuropsychological testing with adolescents at-risk for psychopathology and their families.
- 2005 - 2007 **Adolescent and Adult Suicide Awareness Practicum**
Supervisor(s): Mark McCloud Ph.D., Cynthia Messina, Ph.D.
Description: Visited undergraduate classes at Emory University and facilitated the discussion of material compiled by the National Society for Suicide Awareness. The discussion was designed to increase awareness of suicide risk factors and inform students of the various pathways to care.