

Vijay Anand Mittal

May 2024

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Research Interests: schizophrenia; risk for psychosis; early identification and intervention; motor function and dysfunction; stress biology; cognitive affective neuroscience; transdiagnostic approaches; individualized medicine; task and assessment construction and development.

Employment

- 2023 – Present* Chair, Department of Psychology
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-Present* Co-Director
Institute for Innovations in Developmental Sciences (DevSci), Training Core
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 Biobehavioral 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

Laney Distinguished Alumni Award, Emory University, 2024
Inaugural ScholarGPS, [Highly Ranked Scholar](#) , 2024
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

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* Director, [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), 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.
- 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 4 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 millions of research dollars each year. I am involved in every aspect of running and growing the department and implementing a strategic vision.
- 2016-Present* 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 a number of initiatives aimed at improving DEI at the departmental, University, and international level. 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 led a “[Sneak Peek](#)” event for the past eight years (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 served as the director of the Diversity Committee for the Society for Research in Psychopathology (the 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 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 Academic leadership: I have played roles in the executive committees and advisory panels for leading academic societies and institutes as well as innovative and federally funded training programs. I sit on a standing panel for a National Institute for Mental Health (NIMH) review board, and have served as an attendee workshops (e.g., I co-lead a subgroup designing the formation of a novel way to organize [motor dysfunction](#) for NIH), and have served in the senior team of several flagship journals. Details of this work are highlighted in the following sections.

Appointed Editorial Positions

Associate Editor:

- 2019-present *Journal of Psychopathology and Clinical Science* (formally *Journal of Abnormal Psychology*)
 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* (2023): 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: CNNI
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 Review:

2021-2025	NIMH 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

2020	NIMH Clinical High-Risk International Consensus Meeting
2019	NIMH Research Domain Criteria (RDoC) Development and Environment Workgroup
2016-2019	NIMH Research Domain Criteria (RDoC) Motor Domain Workgroup
2017	-Group Co-Moderator

Foundation Review:

2022 Grawemeyer Award External Panel Member

Research Experience

- 2010-Present* Director
Adolescent Development and Preventive Treatment (ADAPT) Research Program
Lab Website: <http://www.adaptprogram.com>
Northwestern University
Department of Psychology
- 2016-Present* Co-Director (with Christine Hooker)
Chicago Early Intervention Network
Northwestern/Rush University Medical Center
- 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

National Institute of Mental Health (NIMH) R01 120088

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 R01MH116039-01A1

Prodromal Inventory for Negative Symptoms: Development and Validation

Principal Investigator: Vijay Mittal, Greg Strauss

Project: 3/01/2019-11/30/2024 (NCE)

Total Direct Costs: \$2,458,416

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

Goal: To develop a high 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 Caadenhead (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: 9/1/20-8/2025

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 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.

National Institute of Mental Health R01 MH118741

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 Leow

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 R01

Title: Social Processing Deficits in Remitted Adolescent Depression Dates: 12/9-12/24

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. Pending

National Institute of Mental Health R01 (Pending Council, 15th percentile)

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

Dates: 4/24-3/29

PI: Mittal

Co-Investigators: Katherine Damme, Daniel Mroczek, Jennifer Pfeifer

Total Direct Costs: 275k

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

C. Executive Committee for Training and High-Risk 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

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

2023-Presnt

Director: Steve Silverstein

University of Rochester, Department of Psychiatry

Role: Advisory Board Member

D. Current Mentored Awards

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

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.

E. Completed Research Support

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 care-taker/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

F. Completed Mentored Award

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.

NIMH National Research Service Award. F31MH123121 decisions)
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.

Canadian Institutes of Health Research (CIHR), Doctoral Foreign Study Award (DFSAs)
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 (formerly 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
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- 288) *Cowan R, Ouellet L, Jones C, McAdams D, Mittal VA. Self-concept and narrative identity in youth at clinical high risk for psychosis. *Schizophrenia Bulletin* (in press)
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complex latent structure of attenuated psychotic symptoms: Hierarchical and bifactor models of of SIPS Symptoms Replicated in Two Large Samples at Clinical High Risk for Psychosis. *Schizophrenia Bulletin*.

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B. Chapters:

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- 6) Cornblatt, B. A., Walker, E. F., Green, M. F., & Mittal, V. A., (2008). Schizophrenia: Etiology and Neurocognition. In T. Millon, P. H. Blaney, & R. D., Davis (Eds.) *Oxford Textbook of Psychopathology* (2nd edition). Oxford University Press: New York.
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- 10) Trottman, H., Mittal, V. A., Tessner, K. D., & Walker, E. F., (2013). Schizophrenia and the Psychotic spectrum. In Craighead, EW, Miklowitz, DJ, & Craighead, LW (Eds.), *Psychopathology: History, Diagnosis, and empirical foundations* (2nd Edition). John Wiley & Sons, p. 403-445.
- 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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18) Haut, K. Mittal, V, Shankman, S, Hooker, C, (2017) Cognitive training in schizophrenia. (Eds Hoffman, Asmundson), *The Science of Cognitive Behavioral Therapy*, Elsevier.483-520.

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., James, 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.

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*. (pp. []). Oxford University Press: NY.

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

- 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).

Presentations

A. Select Conference and Academic Symposia

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
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, 2021

Invited Talk: Development and RDoC
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.

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, Leow

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 web-cast 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 web-cast 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. Other

Staff Research Talk- The ADAPT lab Research Program

University of Colorado Boulder

January 2013

D. Conference Participation

- 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 29th 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

E. Abstracts from Conference Poster Presentations:

- Pratt, D. N., Ristanovic, I., Zarubin, V., Allende Serra, L. M., Kuhney, F., Spencer, C., Olson, G., Hoffman, M., Stevens, M., Parmacek, S., Linares, N., Mittal, V. A. *Revisiting the Obvious: A Meta-Analytic Update on the Processing Speed Impairment in Schizophrenia*. Poster presented at the 2024 Schizophrenia International Research Society meeting, Florence, Italy.
- Allende L.M., Strauss, G., Yang, L.H., Mittal, V.A.. Stigma in Clinical High Risk for Psychosis: Its Relation to Positive and Mood Symptomatology. Poster Presented at the Society for Research in Psychopathology (SRP) Annual Meeting, St Louis, United States. 2023.
- Damme, K.S.F., Mittal, V.A. *Physical and Mental Health in Adolescence: Novel Insights from a transdiagnostic examination of FitBit data in the ABCD Study*.
- F.S. Kuhney, Strauss, G.P., & V.A. Mittal. (2023). Leveraging Digital Phenotyping to Predict Symptoms in Youth at Clinical High-Risk for Psychosis. Poster presented at the Society for Research in Psychopathology Annual Meeting (St. Louis, MO).
- Fattal, J. & Mittal, V.A. Autonomic Activation during Startle Task in Individuals at Clinical High-Risk for Psychosis. Poster presented at the 2023 Meeting of the Society for Research in Psychopathology Conference.
- Hernandez, J. J., Porter, A., Damme, K., & Mittal, V. A. (2023, September). *Investigating white matter developmental trajectories in youth with psychotic-like experiences: A longitudinal ABCD study* [Poster presentation]. Society for Research in Psychopathology, St. Louis, MO.
- Olson, G., Damme, K.S.F., Cowan, H.R., Allende Serra, L.M., Stevens, M., Mittal, V. "Emotion and Language in Individuals at Clinical High-Risk for Psychosis: A Linguistic Analysis." Poster presented at: Society for Research in Psychopathology Annual Meeting, St. Louis, MO, September 2023.
- Pratt, D. N., Luther, L., Kinney, K., Gold, J. M., Walker, E. F., Strauss, G. P., Woods, S. W., Powers, A. R., Corlett, P. R., Schiffman, J., Waltz, J. A., Silverstein, S. M., Ellman, L. M., & Mittal, V. A. (2023). Comparing a Computerized Digit Symbol Test to a Pen-And-Paper Classic. Poster presented at the 2023 Society for Research in Psychopathology, St. Louis, MO.
- Ristanovic, I., Strauss, G.P., Walker, E.F., Mittal, V.A. (2023). Emotional Stress Reactivity and Positive Psychosis Symptoms in Individuals at Clinical High-Risk for psychosis: An Ecological Momentary Assessment Study. *Poster presented at Society of Research for Psychopathology, St. Louis*
- Williams, T. F., Pinkham, A. E., & Mittal, V. A. (2023, September). *Understanding a Continuum of Psychopathology Using a Hierarchical Model of Social Cognition*. Poster presented at the annual meeting of the Society for Research on Psychopathology, St. Louis, MO.
- Zarubin, V. C., Zhao, G., Wakschlag, L., Haase, C., & Mittal, V. (September, 2023). Facial affect in early childhood as related to later psychotic-like experiences. *Society for Research in Psychopathology, St. Louis, MO*.
- Ho G, Pratt D, Bridgwater M, Olson G, Schiffman J, Ellman L, Mittal V. *Factors Impacting Intention to Seek Treatment within Youth at Clinical High Risk for Psychosis*. Poster presented at: 2022 Society for Research in Psychopathology Annual Meeting; September 2022; Philadelphia, PA
- Karp E.L., Williams T.F., Ellman L.M., Strauss G.P., Walker E.F., Corlett P.R., Woods S.W., Powers A.R., Gold J.M., Schiffman J, Waltz J.A., Silverstein S.M., Mittal V.A. (2022 September). *Gesture Interpretation and Performance Deficits in Clinical High Risk for Psychosis*. Poster presented at the 35th annual meeting of the Society for Research in Psychopathology, Philadelphia.
- Porter, A., Damme, K.S.F., Gratton, C., Mittal, V.A. (Sept, 2022). *A meta-analysis and systematic review of single vs multimodal neuroimaging techniques in detecting biomarkers linked to schizophrenia*. Poster

- presented at the annual meeting of the Society for Research in Psychopathology
Philadelphia, PA
- Raj, J., Pratt, D., Schiffman, J., Ellman, L.M., Mittal, V.A. (2022, September). *Parsing Dissociative Experiences between Psychosis and Trauma*. Poster presented at the annual meeting of the Society for Research on Psychopathology, Philadelphia, PA.
- Williams, T. F., Williams, A. L., Cowan, H. R., Hernandez, J. J., Walker, E. F., Bearden, C. E., Keshavan, M., Cornblatt, B. A., Addington, J., Woods, S. W., Perkins, D. O., Mathalon, D. H., Cadenhead, K. S., Stone, W., Mittal, V. A. (2022, September). *Testing pre-registered predictions regarding the Hierarchical Taxonomy of Psychopathology in individuals at clinical high risk for psychosis*. Poster presented at the annual meeting of the Society for Research on Psychopathology, Philadelphia, PA.
- Zalkind, K, Mittal V.A. (2022, September). *Semantic Priming and Clinical Symptoms in Individuals at Clinical High Risk for Psychosis vs Healthy Controls*. Poster presented at the 35th annual meeting of the Society for Research in Psychopathology, Philadelphia.
- Zarubin, V. C., Damme, K. S. F., Vargas, T., Osborne, K. J., Norton, E., Briggs-Gowan, M., Allen, N., Wakschlag, L., & Mittal, V. A. (September, 2022). *Neurodevelopmental vulnerability to psychosis: Developmentally-based methods enable detection of early life inhibitory control deficits that predict psychotic-like experiences at the transition to adolescence*. Society for Research in Psychopathology, Philadelphia, PA.
- Cowan, H. R., McAdams, D. P., Mittal, V. A. (2021, Sept). *Narrative identity and clinical high risk for psychosis*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Meeting held online.
- Damme, K. S. F., Ristanovic, I., & Mittal, V. A. (2021). *Timing of Menarche and Abnormal Hippocampal Connectivity in Youth at Clinical-High Risk for Psychosis*. Annual Conference of the Society of Biological Psychiatry (Virtual)
- Frosch, I. R., Damme, K. S. F., Mittal, V. A. (September, 2021). *A multidimensional approach to social processing reveals distinct cerebellar connectivity patterns in CHR individuals*. Society for Research in Psychopathology, virtual conference.
- Giljen, M., Martinez, C. P., Vargas, T., & Mittal, V. A. (2021, September 24). *Associations Among Developmental Abnormalities, Sensorimotor Neurocognition, and Psychosis Spectrum Symptoms in Youth*. SRP, Virtual Conference.
- Gupta, T., Cowan, H.R., Strauss, G.P., Walker, E.F., Mittal, V.A. (2021). *Deconstructing Negative Symptoms in Individuals at Clinical High-Risk for Psychosis: Evidence for Volitional and Diminished Emotionality Subgroups that Predict Clinical Presentation and Functional Outcome*. Poster presented at the International Society for Research in Psychopathology. Virtual Conference, United States.
- Karp E.L., Williams T.F., Mittal V.A. (2021 September). *Phenotypic Markers of Autism in Youth at Clinical High Risk for Developing Psychosis*. Poster presented at the 34th annual meeting of the Society for Research in Psychopathology, virtual.
- Osborne, K.J., Kraus, B., Curran, T., Earls, H., Mittal, V.A (2021). *An event-related potential investigation of early visual processing deficits in youth at clinical high-risk for psychosis*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Virtual.
- Ristanovic, I., Haase, C., Lunsford-Avery, J., Nimmagadda, S., Mittal, V. A. (2021). *The Relationship between Stress Intolerance and Coping Styles with Sleep in Individuals at Clinical High-Risk for Psychosis*. Poster presented at Society of Research for Psychopathology, Virtual
- Vargas, T. & Mittal, V.A. (2021). *Differentiating Kinds of Systemic Stressors with Relation to Psychotic-Like Experiences in Late Childhood and Early Adolescence: The stimulation, discrepancy, and Deprivation Model of Psychosis*. Poster presented at Society of Research for Psychopathology, Virtual

- Williams, T. F., Ellman, L. E., Schiffman, J., & Mittal, V. A. (2021, September). *Employing Contemporary Integrative Interpersonal Theory to Understand Dysfunction in Those at Clinical High Risk for Psychosis*. Poster presented at the annual meeting of the Society for Research on Psychopathology, Online.
- Zarubin, V., Damme, K. S. F., Briggs-Gowan, M., Wakschlag, L., Norton, E., & Mittal, V. (September, 2021). *Distinct neurocognitive profiles in preschoolers related to specific domains of later psychopathology*. Society for Research in Psychopathology.
- *Gupta, T., Haase, C.M., Strauss, G.P., Cohen, A.S., Ricard, J.R., Mittal, V.A. (2020, April). Altered emotion expression in psychosis risk: Determining the promise of ultra-thin slicing and comparing human and automated coding methods. Poster presented at the Society for Affective Science, San Francisco, CA.
- Stephens, J.E., Yee, C. I., Mittal, V.A., & Haase, C.M. (2020, April). Emotions in conflict: A behavioral analysis of adolescent-parent conflict conversations. Poster presented at the Annual Convention for the Society for Affective Science, San Francisco, CA.
- Anaya, I. C., Stephens, J. E., Mittal, V. A., Haase, C. M. (2020, April). Adolescent's Emotional Experiences During Adolescent-Parent Interactions and Links with Dispositional Affect. Poster presented at the Society for Affective Science conference, San Francisco, CA.
- Rodosky, S. E., Stephens, J. E., Gupta, T., Mittal, V. A., & Haase, C. M. (2020, April). Not Expressing Emotions and Links with Anxiety and Depression: A Laboratory-Based Study of Adolescent-Caregiver Conversations. Poster presented at the Society for Affective Science conference, San Francisco, CA.
- Rompilla, D. B., Jr., Stephens, J. E., Hittner, E. F., Mittal, V. A., & Haase, C. M. (2020, April). Becoming Happy while Sad: Executive Functioning and Emotion Regulation in Older Adults. Poster presented at the Society for Affective Science conference, Boston, MA. (2019, April) Becoming Happy while Sad: Executive Functioning and Emotion Regulation in Older Adults. Poster presented at the Society for Affective Science conference, San Francisco, CA.
- *Ricard, J.R., Gupta, T., Hittner, E.F., Haase, C.M., Mittal, V.A. (2020, April). *Trauma history and facial expressions of emotions in individuals at clinical high risk for psychosis*. Poster presented at Society for Affective Science Conference. San Francisco, CA.
- *Damme, K.S.F., Ristanovic, I., & Mittal, V.A. (2019) The Impact of Cannabis Use on Resting-State Networks in the Psychosis Risk Period: Cross-Sectional and Longitudinal Implications of Use. Society of Research for Psychopathology Annual Meeting, Buffalo, New York.
- *Damme, K. S. F. & Mittal, V. A. (2019). Distinct and opposite Profiles of Connectivity during Self-Reference Task and Rest in Youth at Clinical High-Risk for Psychosis. Society for Biological Psychiatry, Chicago, Illinois.
- *Damme, K.S.F. & Mittal, V.A. (2019). Clinical High Risk for Psychosis Show Stable Global Functional and Nodal Structural Disconnectivity, *Organization on Human Brain Mapping, Rome, Italy*.
- *Damme, K.S.F., Ristanovic, I., & Mittal, V.A. (2019). The Impact of Cannabis Use on Resting-State Networks in the Psychosis Risk Period: Cross-Sectional and Longitudinal Implications of Use. *Society of Research for Psychopathology Annual Meeting, Buffalo, New York*.
- *Gupta, T., Damme, K.S.F., Haase, C.M., Mittal, V.A. (2019) Genuine and nongenuine smiles in adolescents and young adults at clinical high-risk for psychosis. *Society of Biological Psychiatry Annual Meeting, Chicago, Illinois*.
- *Gupta, T., Dean, D.J., Kelley, N.J., Bernard, J.A., Ristanovic, I., Mittal, V.A. (2019). Cerebellar tDCS improves procedural learning in non-clinical psychosis. *Organization for Human Brain Mapping Annual Meeting, Rome, Italy*.

- *Gupta, T., Haase, C.M., Strauss, G.P., Cohen, A.S., Ricard, J.R., Mittal, V.A. (2019). Altered emotion expression in psychosis risk: Determining the promise of thin slicing and comparing human and automated coding methods. *Poster to be presented at Society for Research in Psychopathology Annual Meeting, Buffalo, New York.*
- *Osborne, K.J., Dean, D.J., Gupta, T., Ristanovic, I., Vargas, T., Walther, S., Mittal, V.A (June 2019). Motor behavior subtypes and risk profiles in clinical high-risk individuals. *Talk to be given at the 14th World Congress of Biological Psychiatry, Vancouver, BC.*
- *Osborne, K.J., Gupta, T., Mittal, V.A (June 2019). Brain stimulation and motor learning in a psychosis continuum population. *Talk to be given at the 14th World Congress of Biological Psychiatry, Vancouver, BC.*
- *Osborne, K.J., Damme, D.S.F., Gupta, T., Dean, D.J., Bernard, J.A., Mittal, V.A (May 2019). Timing dysfunction and cerebellar network abnormalities in youth at clinical high-risk for psychosis. *Poster presented at the 74th annual meeting of the Society of Biological Psychiatry, Chicago, IL.*
- *Osborne, K.J., Vargas, T., Mittal, V.A, (2019). Early childhood social communication deficits in youth at clinical high-risk for psychosis: Associations with functioning and risk. *Poster to be presented at the annual meeting of the Society for Research in Psychopathology, Buffalo, NY.*
- *Ricard, J.R., Gupta, T., Mittal, V.A., Haase, C.M. (2019, March). Signs of psychosis risk: Thin slices of altered emotional behavior in youth at clinical high risk for psychosis. *Poster presentation given at Society for Affective Science. Boston, MA.*
- *Ricard, J.R., Gupta, T., Haase, C.M., Mittal, V.A. (2019, September). Facial expressions of emotions and life stress in adolescents at clinical high risk for psychosis. *Poster to be presented at 33rd Annual Meeting of the Society for Research in Psychopathology Annual Meeting, Buffalo, New York.*
- *Rowghani, K., Gupta, T., Mittal, V.A. (2019, May). Facial Expressivity in Non-Clinical Psychosis. *Department of Psychology Undergraduate Poster Session, Evanston, IL.*
- *Vargas, T., Damme, K.S. F., Hooker, C.I., Gupta, T., Cowan, H.R., Mittal, V.A. (2019). Differentiating Implicit and Explicit Theory of Mind and Associated Neural Networks in Youth at Clinical High Risk (CHR) for Psychosis. *Organization for Human Brain Mapping Annual Meeting, Rome, Italy.*
- *Zou, D. S., Conley, R., Mittal, V. A. (2019) Correlates of facial emotion recognition task performance in healthy youth. *Poster presented at Anxiety and Depression Association of America, Chicago, IL.*
- *Lång, U., Mittal, V., Schiffman, J., & Therman, S. (2019). F66 Measurement invariance of psychotic-like experiences as measured with the PQ-B in adolescent and adult population samples. *Schizophrenia Bulletin, 45(Supplement_2), S280-S280.*
- *Zou, D. S., Conley, R., Mittal, V. A. (2019) Social responsiveness and psychosis-risk: a multi-perspective approach. *Poster to be presented at Society for Research in Psychopathology Annual Meeting, Buffalo, NY.*
- *Cowan, H. R., & Mittal, V. A. (2018). Self-concept and psychotic-like experiences. *Poster presented at Society for Research in Psychopathology, Indianapolis, IN.*
- *Dean, D.J., Bernard, J.A., Mittal, V. A. (2018). Motor Learning during an isometric force grip task in youth at clinical high risk for psychosis: An fMRI study. *Poster presented at Society for Research in Psychopathology, Indianapolis, IN.*
- *Damme, K.S.F., Gupta, T., Vargas, T., Mittal, V. A. (2018). Stable Structural Connectivity Networks Differences in the Clinical High Risk for Psychosis during the Psychosis Risk Period. *Society of Research for Psychopathology Annual Meeting, Indianapolis, Indiana.*
- *Gupta, T., Rowghani, K.K., Ricard, J.R., Haase, C.M., Mittal, V.A (2018). Alterations in facial expressivity in youth at clinical high-risk for psychosis. *Society for Research in Psychopathology Annual Meeting, Indianapolis, Indiana.*

- *Ristanovic, I., Zou, D. S., Conley, R., Mittal, V. A. (2018). Gonadocorticoids as Neuroprotective Factors in Population at Clinical High Risk for Psychosis. *Poster presented at Society for Research in Psychopathology, Indianapolis, IN.*
- *Severaid, K. B., Osborne, J. O., Mittal, V. A. (2018). Implications of religious and spiritual practices in youth at clinical high risk for psychosis. *Poster presented at Society for Research in Psychopathology, Indianapolis, IN.*
- *Vargas, T., Damme, K.S., Mittal, V. A. (2018). Bullying Victimization in Typically Developing and Clinical High Risk (CHR) Adolescents: A Multimodal Imaging Study. *Society of Research for Psychopathology Annual Meeting, Indianapolis, Indiana.*
- *Dean, D. Bernard, Mittal, VA (2018). Motor learning during an isometric force grip task in youth at clinical high-risk for psychosis: a functional imaging study. Poster presented at Society for Research in Psychopathology, Indianapolis, I
- *Zhang, W., Osborn, J., Mittal, VA., Kappenman, E., (2018). Behavioral and neural measures of visual working memory in youth at clinical high-risk for psychosis. Poster presented at Society for Research in Psychopathology, Indianapolis, IN
- *Azis, M., Mittal. (2018) Factor analysis of negative symptoms in individuals at clinical high-risk for psychosis. Poster presented at Society for Research in Psychopathology, Indianapolis, IN
- Mittal, V., Gupta, T., Dean, D., Bernard, J., Kelley, N., Ristanovic, I., ... & Vargas, T. (2018). S206. Cerebellar Transcranial Direct Current Stimulation (tDCS) Improves Procedural Learning in Non-Clinical Psychosis. *Biological Psychiatry, 83(9)*, S427-S428.
- *Carol, E.E., Link, A., Mittal, V.A. (2017). Obstetric complications and HPA axis functioning in adolescents at ultra high-risk for psychotic disorders. Poster presented at Society for Research in Psychopathology, Denver, CO.
- *Dean, D. J., Walther, S., & Mittal, V. A. (September 2017). Vulnerability subtypes in motor performance in youth at risk for psychosis. Poster presented at Society for Research in Psychopathology. Denver, CO.
- *Gupta, T., Garcia, G., Hespos, S.J, Horton, W.S., Yang, J., Mittal, V.A. Automated analysis of written narratives reveals abnormalities in referential cohesion in youth at ultra-high risk for psychosis. 2017. Presented at Society for research in psychopathology. Denver, Colorado.
- *Lieberman, A., Larson, C., Mittal, V.A. (2017). Voice-pitch perturbation in non-clinical psychosis population. Poster presented at Society for Research in Psychopathology, Denver, CO.
- *Newberry, R.E., Dean, D.J., Mittal, V.A. (2017). Multi-site study of exercise behavior in adolescents at clinical high-risk for developing psychotic disorders. Poster presented at Society for Research in Psychopathology. Denver, CO.
- *Osborne, K. J., Kent, J., Shashoua, N., Mittal, V.A. (2017). Perceptual timing deficits in individuals at ultra-high risk for psychosis. Poster presented at the annual meeting of the Society for Research in Psychopathology, Denver, CO.
- *Ozturk, S., Vargas, T., & Mittal, V. (September, 2017). Abnormal white matter connectivity in non-clinical psychosis. Poster presented at the 31st Annual Meeting of the Society of Research in Psychopathology, Denver, CO.
- *Pelletier-Baldelli, A., Bernard, J., Orr, J., Gupta, T., Mittal, V. (2017). Do youth at risk for psychosis like being liked? A functional magnetic resonance imaging investigation into social reward processing. Poster presented at Society for Research in Psychopathology, Denver, CO.
- *Ristanovic, I., Mittal, V. A. (2017). The Role of Legalization of Cannabis Use on Cannabis Use Attitudes and Behaviors in Youth at Risk for Psychosis. Poster presented at Society for Research in Psychopathology, Denver, CO.

- Nunez, M., Kelley, N.J., Mittal, V.A., & Zinbarg, R. (2017). Anodal tDCS over the right dorsolateral prefrontal cortex undermines exposure therapy via elevated avoidance motivation. *Psychophysiology*, 54, S164.
- Cohen, R, McAdams, D., Mittal, V (2017). Core beliefs in healthy youth and youth at ultra high-risk for psychosis. APS, Boston.
- *Cibelli, E., Cole, J., Mittal, V., & Goldrick, M. (2017). Prosodic cues to psychosis risk. *Acoustical Society of America, Boston*.
- *Clark, S, Ahmadi, A.,Turner, J., Mittal, VA (2017) Insight and cerebello-cortical connectivity in adolescents at ultra high risk for schizophrenia. ICOSR SD, Schizophrenia Bull, 43(S1) S42
- Mittal, V.A., *Dean, D., *Gupta, T., Bryan, A., (2017) Aerobic exercise intervention for clinical high-risk youth improves cognitive and hippocampal abnormalities. ICOSR SD, 43(S1) S168
- *Carol, E.E., *Newberry, R.E., Mittal, V.A. (2016) *Cannabis and basal cortisol levels in adolescents at ultra high-risk for psychotic disorders*. Poster presented in Society for Research in Psychopathology, Baltimore, MD.
- *Dean, D.J., *Gupta, T., *Newberry, R.E, *Pelletier-Baldelli, A., *Carol, E.E., Mittal, V.A. (2016) *Initial findings from an open label exercise intervention in youth at risk for psychosis*. Poster presented at Society for Research in Psychopathology. Baltimore, MD.
- *Kramer, K.R, *Samson A.T., *Dean D.J., Mittal, V.A. (2016). Video Motion Assessment of Movement Abnormalities During Clinical Interview in Youth at Risk for Psychosis. Poster presented at Society for Research in Psychopathology. Baltimore, MD.
- *Russell, C.E., *Newberry, R.E., Mittal, V.A., & *Bernard, J.A. (2016, September). Patients with Schizophrenia Show Aberrant Patterns of Basal Ganglia Activation: Evidence from ALE Meta-Analysis. Poster session presented at the Thirtieth Annual Meeting of the Society for Research in Psychopathology, Baltimore, MD.
- *Gupta, T., *Kelley N.J., *Dean, D.J., *Ristanovic, I., *Maloney, J.F., Mittal, V.A. (2016). Cerebellar tDCS and procedural learning in non-clinical psychosis. *Poster presented at Society for Research in Psychopathology, Baltimore, MD*.
- *Pelletier-Baldelli, A., *Andrews-Hanna, J.A., Mittal, V.A.(2016). Salience and Symptoms in Youth at High Risk for Psychosis: A Longitudinal Dynamic Functional Connectivity Study. *Poster presented at Society for Research in Psychopathology, Baltimore, MD*.
- *Newberry, R., *Whisman, M.A., & Vijay Mittal, V.A. *Social relationships in adolescents at ultra high risk for psychosis*. (2016, October). Presented at the 50th annual meeting of the Association for Behavioral and Cognitive Therapies, New York, NY.
- *Clark, S, *Ahmadi, A, *Bernard, J, Turner, J, Mittal V. (2016) Insight and cerebello-cortical connectivity in adolescents at ultra high-risk for schizophrenia. ICOSR
- Orr, J., Lopez, J., Mittal, (2016). Disrupted prefrontal dynamics underlying rapid instructed task learning in adolescents at ultra high risk for psychosis, HBM, Geneva.
- Bernard, J, Orr, J, *Dean, D, Mittal (2016). Abnormal Cerebellar Activation in Psychosis Risk during Learning. Human Brain Mapping, Geneva
- *Pelletier-Baldelli, A., Mittal, V (2016) Resting-state Functional Connectivity of the Temporo-parietal Junction and psychosis risk, Human Brain Mapping, Geneva
- Orr J., & Mittal, V.A. Disrupted Prefrontal Dynamics Underlying Task Learning in the Psychosis Prodrome (2016), *Human Brain Mapping*, Geneva
- *Clark, S., Mittal, V.A., Turner, J.A. (2016) *Biological Psychiatry*, Atlanta
- *Bernard, J.A., Orr, J.M., & Mittal, V.A. (2015). Cerebello-thalamo-motor networks and positive symptom course in individuals at ultra-high risk for psychosis: evidence from functional & structural connectivity. Poster to be presented at Society for Research in Psychopathology,

New Orleans, LA.

- *Carol, E.E., *Ives, L., Mittal, V.A. (2015). Resting cortisol level, self-concept, and putative familial environment in adolescents at ultra high-risk for psychotic disorders. Poster to be presented at Society for Research and Psychopathology, New Orleans, LA.
- *Dean, D., *Tullos, M., *Orr, J.M., Mittal, V.A. (2015). Decreased Right-Handedness and Cerebral Asymmetry in Youth at Ultrahigh Risk for Psychosis. Poster to be presented at Society for Research in Psychopathology, New Orleans, LA.
- *Gupta, T., Scott, T., Silverstein, S.M., Papathomas, T.V., Mittal, V. A. (2015). Perceptual Impairments and Disrupted Neural Connectivity in Youth at Ultra High Risk for Psychosis: Evidence from a Hollow Mask Illusion Task. Poster to be presented at Society for Research in Psychopathology, New Orleans, LA.
- *Newberry, R.E., *Orr, J.M., *Bernard, J.A., Mittal, V.A. (2015). Disrupted Verbal Selection is Associated with Negative Symptoms in Adolescents at Ultra-High Risk for Psychosis. Poster to be presented at Society for Research in Psychopathology, New Orleans, LA.
- *Pelletier-Baldelli, A., *Bernard, J.A., Mittal, V.A. (2015). Affective and expressive negative symptoms: A longitudinal functional resting state connectivity study in youth at ultra high-risk for psychosis. Poster to be presented at Society for Research in Psychopathology, New Orleans, LA.
- *Russak, O., *Ives, L., *Dean, D. A., Mittal, V.A. (2015). Dermatoglyphic Asymmetries and Symptoms in Adolescents at Ultrahigh-risk for Psychotic Disorders. Poster to be presented at Society for Research in Psychopathology, New Orleans, LA.
- Mittal, V.A., *Millman, *Bernard, *Dean (2015) Verbal and nonverbal communication deficits in schizophrenia, Gesture-speech mismatch and lexical retrieval gestures in the psychosis prodrome. European Conference on Schizophrenia Research
- *Dean, D.J., Mittal, V.A. Hippocampal Shape Abnormalities in Neuroleptic-Free Youth at Ultrahigh Risk for Psychosis HBM, Oahu, (winner of student travel award)
- Mittal V.A., & *Dean, D. (2015). Novel Technologies to Investigate Motor Behavior in the Psychosis Spectrum. Poster Symposium. International Congress of Schizophrenia Research, Colorado Springs
- *Bernard, J. Mittal VA (2015). Cerebello-cortical resting state connectivity and symptom course in individuals at ultra high-risk for psychosis. HBM, Oahu HA
- *Mittal, V.A. (2015) Exercise-based remediation for youth at ultra high-risk for psychosis. International Congress of Schizophrenia Research
- *Bernard, J.A., & Mittal, V.A. (2014). Dysfunctional activation of the cerebellum in schizophrenia: a functional neuroimaging meta-analysis. The Twentieth Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
- *Bernard, J., Mittal, V.A. (2014). Cerebello-thalamo-cortical Tractography In Individuals At Ultra High-risk For Pyschosis. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- *Carol, E., Mittal, V.A. (2014). Self-reported Cannabis Use Is Inconsistent With The Results From Drug-screening In Youth At Ultra High-risk For Psychosis In Colorado. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- *Dean, D.J., *Bernard, J., *Orr, J., *Gupta, T., *Pelletier-Baldelli, A., *Carol, E., Mittal, V.A. (2014). Psychosocial Distress And Increased Cortico-striatal Connectivity In Youth At Risk For Psychosis. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- *Gupta, T., *Ives, L., Silverstien, S.M., Papathomas, T.V., Keane, B.P., Mittal, V.A. (2014). Dysfunctional Top-down Modulation Of Incoming Sensory Information In Youth

- At Ultra High-risk For Psychosis: Evidence From The Hollow Mask Illusion. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- *Millman, Z.B., *Gupta, T., *Bernard, J., Mittal, V.A. (2014). Gesture-speech Mismatch Reflects Cognitive Instability And Aberrant Neural Connectivity Among Youth At High Risk For Psychosis. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- *Orr, J., Mittal, V.A. (2014). Examining The Neural Correlates Of Disease Insight In Adolescents At Risk For Psychosis. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- *Pelletier-Baldelli, A., *Bernard, J., Mittal, V.A. (2014). Resting State Functional Connectivity Associations With Facial Emotion Recognition, Social Functioning And Psychotic Symptoms In Youth At Ultra High-risk For Psychosis. Poster presented in Society for Research in Psychopathology, Evanston, IL.
- * Pelletier-Baldelli A., Mittal, V.A. (2014) White matter integrity as a predictor of social anhedonia in youth at ultra high-risk for psychosis. Social and Affective Neuroscience Society, Denver,
- Frank, G., Schott, ME., Mittal, V A., (2013) Taste reward circuitry related brain structures characterize ill and recovered anorexia nervosa and bulimia nervosa, *Biological Psychiatry*, 73(9), 90S-91S. San Francisco
- *Bernard, JA., Mittal, V (2013) White Matter of the Middle and Superior Cerebellar Peduncles and Symptom Severity in Individuals at Ultra High-Risk of Psychosis. Society for Research in Psychopathology, Oakland, California
- *Dean, D. Mittal, V (2013) Handwriting Analysis reveals Spontaneous Dyskinesias in Youth at Ultra-High Risk for Psychosis, Society for Research in Psychopathology, Oakland, California
- *Pelletier, A., Mittal, V (2013) MVPA analyses highlight novel early identification strategy for the schizophrenia high-risk period, Society for Research in Psychopathology, Oakland, California
- *Orr, J. Mittal, V (2013) Volumetric differences related to positive and negative symptoms in youth at high risk for psychosis. Society for Research in Psychopathology, Oakland, California
- Mittal, V.A. (2013). Elaine Walker's Contribution to Our Understanding of Neurodevelopment and Schizophrenia. Association for Psychological Science, Washington DC
- Mittal, V.A. (2013). Vulnerability characteristics, the motor system, and high-risk youth. Eastern Psychological Association. New York.
- Mittal, V.A. & *Orr, J. (2013), Structural and Connective Tract Correlates of Spontaneous Movement Abnormalities in High Risk Youth, International Congress of Schizophrenia Research, *Schizophrenia Bulletin*, 39(1)S189.
- Mittal, V.A. & *Caliguri M. (2012), Spontaneous Dyskinesias and Non-Clinical Psychosis: A Continuum of Vulnerability: International Association for Early Psychosis. *Early Intervention in Psychiatry*, 6(1):25
- *Dean, D.J. & Mittal, V.A. (2012, October). Non-Declarative Learning and Cerebellar Morphology in Youth at-risk for psychosis. Society for Research in Psychopathology, Ann Arbor, MI.
- *Lunsford-Avery, J.R. & Mittal, V.A. (2012, October). Sleep disturbance in youth at high risk for psychosis. Society for Research in Psychopathology, Ann Arbor, MI.
- *Pelletier, AL, Mittal, V.A., (2012, October). Neural correlates of autistic traits and emotion perception in youth at high-risk for psychosis. Society for Research in Psychopathology, Ann Arbor, MI.
- *Fleisher, C. Jimenez, A. Daley M., Doz-Abadia, M. Mittal, V. Cannon, T.D. (2012).

- Hippocampal volume deficits predict declines in social functioning for high-risk youth one year later. American Academy of Child and Adolescent Psychiatry, San Francisco
- *Pelletier, A.L., Dean, D.J. Mittal, V.A. (2012) Minor Physical Anomalies and Early Prenatal Development in Youth Vulnerable for Psychotic Disorders. The Rocky Mountain Neuroscience Conference, Denver.
- *Pelletier, A., Dean, D. Wadjtach, J., Hauge, E., Mittal, V. 2012. MPAs and Vulnerability in Prodrome. Rocky Mountain Regional Neuroscience Group, Denver.
- *Case, C., Mittal, V.A., Walker, (2012). Minor physical Anomalies and prodromal youth. Society for Biological Psychiatry, Philadelphia
- *Pelletier, A., *Dean, D.J., & Mittal, V.A., (2011). Developmental dysfunction, striatal dysfunction, and psychotic-like experiences in adolescents and young adults. Society for Research in Psychopathology, Boston
- Mittal, V.A., Jalbrzikowski, M. Daley, M., Bearden, C.E., Cannon, T. D (2011). Abnormal movements and the longitudinal course of social and role functioning in adolescents at risk for psychosis. *International Congress on Schizophrenia Research; Schizophrenia Bulletin* 37(1), p. 275
- Mittal, V. A. (2010). Basal ganglia pathology and adolescents at-risk for schizophrenia. Society for Research in Psychopathology, Seattle.
- Walker, E. F., Mittal, V. A., Compton, M. (2010). Correlates of prodromal symptom progression in youth at risk for psychosis, *Schizophrenia International Research Society*.
- Daley, M., Mittal, V.A., Cannon, T.D., (2010) Basal ganglia volumes and hyperkinetic movements in the schizophrenia prodrome. *American Academy of Child and Adolescent Psychiatry*.
- Mittal, V. A. (2009). Early psychosis prediction, *Nordic Congress of Psychiatry*.
- Mittal, V. A., Walker, E.F., Laskowski, C. M., Simone, A., & Cannon T. D. (2009). Markers of basal ganglia and conversion: Neurocognitive deficits, dyskinesia, and individuals at high-risk for psychosis. *Society for Research in Psychopathology, Minneapolis*.
- Doud, T. Mittal, V., Daley, M., Bearden, C. E., van Erp, T. G. M., Thompson, P. M., O'Neill, J., Cannon, T.D. (2009). Amygdala volumes in post traumatic stress and psychosis. *Amygdala, Trauma, & Stress Conference*.
- Daley, M. & Mittal, V., van Erp, T. G., O'Neill J., Bearden, C. Loesch, I., Altshuler, L. F. Cannon., T. D. (2009). Medial temporal lobe volumes in early onset schizophrenia and Bipolar Disorder. *American Academy of Child and Adolescent Psychiatry*.
- Mittal, V. A. & Cannon, T. D. (2009). Obstetric complications: a putative marker for cumulative risk among prodromal individuals. *International Congress on Schizophrenia Research*.
- Mittal, V. A. & Cannon, T. D. (2008). Obstetric complications and vulnerability for psychosis. *Society for Research in Psychopathology*.
- Mittal, V. A., Libby, A., & Walker, E. F. (2007). Movement abnormalities predict conversion among adolescents at high-risk for schizophrenia. *Society for Research in Psychopathology*.
- Simeonova, D., Hamann, S. B., Tessner, K. D., Mittal, V.A. & Walker, E.F. (2007). Effects of acute cortisol administration on visual memory encoding: An event-related fMRI investigation. *Society for Research in Psychopathology*.
- Walder, D. J., Mittal, V. A., McMillan, A. Walker, E. F. (2007). Sex Differences in neurocognitive prediction of conversion to Axis I psychosis in a sample of at-risk youth. *Society for Research in Psychopathology*.
- Tessner, K. Dhruv, S, Mittal, V. A. & Walker, (2006). Influence of life events, daily stressors, and cortisol levels on symptoms severity in adolescents with schizotypal personality disorder. *Society for Research in Psychopathology*.

- Simeonova, D. I., Attalla, A., Mittal, V. A., Tessner, K., & Walker, E. F. (2006). The role of verbal memory and sustained attention as potential vulnerability markers for bipolar disorder. *Society for Research in Psychopathology*.
- Mittal, V. A., Dhruv, S. & Walker, E. F. (2006). Movement abnormalities predict the longitudinal development of the schizophrenia prodrome. *Society for Research in Psychopathology*.
- Mittal, V. A. & Walker E. F. (2006). Emergent suicidality in adolescents with depression, OCD, and anxiety. *Georgia Psychological Association*.
- Mittal, V. A., Walker, E. F. & Trotman, H. (2004). Gesture behavior in unmedicated schizotypal adolescents. *Society for Research in Psychopathology*.
- Bollini, A., Walker, E. F. & Mittal, V. A. (2003). Course of cognitive functioning in schizophrenia and the relation to later brain morphology. *Society for Research in Psychopathology*.

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., Associate 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., Postdoctoral Fellow, Harvard, Department of Psychology
 Juston Osborne, Ph.D., Postdoctoral Fellow, Washington University, Department of Psychology
 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 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:

NSF- honorable mention, Franchesca Khuney, 2021
SIRS Early Career Award, Franchesca Khuney, 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:

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
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-present (Fedorova)
Carson Knoer, URPA Summer 2019
Jordyn Ricard, Poster Spotlight Award- Society for Affective Sciences (SAS), Winter 19
URG, Alaran 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

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
 2015- Olivia Russak (Mentor: Mittal)

Professional Service

Editorial Service

2019- Present *Journal of Psychopathology and Clinical Science* (formally, *Journal of Abnormal Psychology*, Associate Editor
 2014-2019 *Journal of Abnormal Psychology*, Consulting Editor
 2023- Present *Schizophrenia Bulletin*, Associate Editor
 2020-2023 *Schizophrenia Bulletin*, Managing Editor
 2017-2020 *Schizophrenia Bulletin*, Assigned Editor

Professional Societies

2024 Sustained Contributions to Social Justice in Psychopathology, Chair
 2023 Mentorship Award Committee, Society for Research in Psychopathology (SRP)
 2019-Present 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

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

2020-2022 Department of Psychology, Awards committee chair

2020- Present DevSci Diversity Committee

2018-Present Student Well-being task force

2018-Present 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

Northwestern Invited Graduate Student and Postdoctoral Student Training Lectures:

2017 Society Biology & Health Cluster, interdisciplinary research and job search advice

2016 Graduate Student (PGSC): Career Development Lecture

2016 Postdoctoral Student Consortium: Early Career Advice Lecture

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

- 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

- 2023- Yuki Han (Reber)
- 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 Accumbens 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

- 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

- 2023- Dissertation Proposal, Alexis Porter (Gratton, Mittal)
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-restrain 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 (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).* I have taught this course six times: Spring 15/16, Winter 16/17, Winter 17/18, Fall 18/19, Winter 19/20, Fall 20/21. 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).* I have taught this course 3 times: Fall 15/16, Fall 16/17, Spring 18/19). 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). I have taught this course four times: Spring 15/16, Spring 17/18, Winter 18/19, and Spring 19/2020. I am scheduled to teach it twice more this academic year. 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.