

DR. PRANAV M. JAGTAP, M.D.

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POST-GRADUATE TRAINING AND CERTIFICATIONS

American Board of Psychiatry and Neurology

Board Certification

December 2020

Clinical TMS Society

PULSES: A Comprehensive Review of Transcranial Magnetic Stimulation for Psychiatric Conditions

January 2020

Michigan Psychoanalytic Institute, MI

Psychoanalytic Fellowship

August 2018 – June 2019

Henry Ford Health Systems Detroit, MI

Psychiatry, PGY-4

Co-chair, Research Club

June 2016 – June 2020

MEDICAL EDUCATION

Wayne State University School of Medicine, Detroit, MI

Doctor of Medicine

August 2012 – May 2016

UNDERGRADUATE EDUCATION

Wayne State University, Detroit, MI

B.A., Economics

August 2008 – May 2012

RESEARCH EXPERIENCE

Wayne State University School of Medicine
Detroit, MI

10/2009- 10/2010

- Conducted research studies to identify invasive bivalve species in the Great Lakes.
- Research experience includes a thorough understanding and practice of PCR and gel electrophoresis.
- Publication: Ram, Jeffrey L., A.S. Karim, Payel Acharya, Pranav Jagtap, Sonal Purohit, and Donna R. Kashian. 2011. *Reproduction and genetic detection of veligers in changing Dreissena populations in the Great Lakes*. *Ecosphere* 2:art3.

Wayne State University, B.R.A.I.N division

06/2012 – 06/2016

Detroit, MI

- Studies conducted using data acquired from task-based functional magnetic resonance imaging (fMRI).
- Conducted experiments involving fMRI data acquisition and immersed myself in the application of analytical techniques, namely Psychophysiological Interaction (PPI) and Dynamic Causal Modeling (DCM)

POSTERS & PRESENTATIONS/PUBLISHED CONFERENCE ABSTRACTS

- Jagtap, P., Ram, J. ***Detection of invasive mussels with species and hybrid-specific molecular methods***. WSU Undergraduate Research Conference; 2010; Detroit, MI.
- Pranav Jagtap¹, Ernesta M. Meintjes², Christopher D. Molteno³, Sandra W. Jacobson¹, Joseph L. Jacobson¹, Vaibhav A. Diwadkar¹. ***Prenatal Alcohol Exposure Leads To Disordered Network Interactions During Working Memory: fMRI Evidence from Syndromal and Exposed Children***. Society of Biological Psychiatry; 2012; Philadelphia; PA.
- Pranav Jagtap¹, Ernesta M. Meintjes², Christopher D. Molteno³, Sandra W. Jacobson¹, Joseph L. Jacobson¹, Vaibhav A. Diwadkar¹. ***Altered Network Interactions during Working Memory in Children with Prenatal Alcohol Exposure: fMRI Evidence***. Organization for Human Brain Mapping; 2012; Beijing, China.
- Pranav Jagtap, Diwadkar VA. ***Contextual Modulation of Frontal-Thalamic pathways during sustained attention: Dynamic Causal Modeling reveals asymmetric bottom-up and top-down effects***. Society of Biological Psychiatry; 2013; San Francisco; CA.
- Pranav Jagtap, Diwadkar VA. ***Dynamic Causal Modeling reveals differential***

contextual modulation of pathways during sustained attention. Organization for Human Brain Mapping; 2013; Seattle, WA.

- Pranav Jagtap, Diwadkar VA. **Dynamic Causal Modeling reveals differential contextual modulation of pathways during sustained attention.** 11th World Congress of Biological Psychiatry, 2013.
- Pranav Jagtap, Diwadkar VA. **DCM reveals asymmetric modulation of frontal-thalamic pathways during sustained attention.** Michigan State Medical Society meeting; 2013, Michigan.
- Pranav Jagtap, Diwadkar VA. **Sustained attention frontal-thalamic networks and risk for schizophrenia: DCM applications in fMRI.** Organization for Human Brain Mapping; 2014; Hamburg, Germany.
- Pranav Jagtap, Diwadkar VA. **Network Dysfunction in Asymptomatic Adolescents at risk for Schizophrenia.** American Academy for Child and Adolescent Psychiatry annual meeting; 2014; San Diego, CA.
- Pranav Jagtap, Diwadkar VA. **Disrupted Frontal-Thalamic Connectivity as a marker of risk for Schizophrenia: Dynamic Causal Modeling applied to fMRI data collected in vivo.** World Federation for the Society of Biological Psychiatry; 2015; Kyoto, Japan.
- Jagtap, P., Prabhakar, D. **ADHD and Non-invasive Brain Stimulation: A Review.** Henry Ford Health Systems Medical Education Research Forum; 2017; Detroit, MI.
- Jagtap, P., Villafuerte, M. **Treatment of schizophrenia and dementia in a non-compliant patient.** Michigan Psychiatric Society; 2017; Michigan.
- Jagtap, P., Khan, S., Curaudeau, G. **ADHD and TMS: Efficacy and the Emergence of Biomarkers: A Review.** North American Neuromodulation Society; 2018; Las Vegas; NV.
- Maan, R., Jagtap, P., He, G., Golden, Allan., Fakhoury, J., Bauza, P. **NMS vs SS – Raising Awareness in Clinical Settings.** Michigan Psychiatric Society; 2018; Michigan.
- Jagtap, P., Khan, S., Curaudeau, G. **ADHD and TMS: Efficacy and the Emergence of Biomarkers: A Review.** American Psychiatric Association; 2018; New York City, NY
- Jagtap, P., Maan, R. **Non-Invasive Brain Stimulation (NIBS) in palliative care;**

Utility of transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS) to alleviate pain and end of life suffering: A Review.
North American Neuromodulation Society; 2019; Las Vegas, NV.

- Jagtap, P., Maan, R. ***Non-Invasive Brain Stimulation (NIBS) in palliative care; Utility of transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS) to alleviate pain and end of life suffering: A Review.*** American Psychiatric Association; 2019; San Francisco, CA.
- Jagtap, P., Chawa, M. ***Non-Invasive Brain Stimulation (NIBS) and Cognitive Impairment: A Review.*** American Psychiatric Association; 2019; San Francisco, CA.
- Jagtap, P. ***Order through disorder: Chaos and the Alchemy of Digital Gold.*** Jungian Society for Scholarly Studies; 2019; Asheville, NC.
- Jagtap, P., Chawa, M., Pasovic, V., Gautam, M. ***A Review of Non-Invasive Brain Stimulation for Cognitive Impairment: Evidence for Novel and Widespread Applications.*** North American Neuromodulation Society; 2020; Las Vegas, NV.

PUBLICATIONS

- Jagtap, P., Norred, M. ***Overview of Brain Stimulation Techniques for Depression in the Geriatric Population.*** International Psychogeriatric Association Bulletin, 32(4), 2-4.
- Jagtap, P., Diwadkar, V. ***Effective connectivity of ascending and descending frontothalamic pathways during sustained attention: Complex brain network interactions in adolescence.*** Human Brain Mapping, 2016 Jul; 37(7):2557-70
- Gautam, M., Kaur, M., Jagtap, P. ***Levomilnacipran: More of the Same?*** Primary Care Companion for CNS Disorders; 2019 Sep; 21(5):19

AWARDS

WSU Undergraduate Research Award

March 2010

- Recipient of WSU Undergraduate Research grant (\$2300).
- Grant awarded to "Detection of invasive mussels with species and hybrid-specific molecular methods."

WSU SOM Research Day Symposium

January 2013

- Oral Clinical Presentation – “*Contextual Modulation of Frontal-Thalamic Pathways during sustained attention: Dynamic Causal Modeling reveals separate bottom-up and top-down effects.*”
- Lois and Herschel Sandberg award for Biomedical Research – best overall presentation selected at the annual medical student research symposium.
- First place – best clinical oral presentation selected among various clinical studies conducted at the Wayne State University School of Medicine.

2013 Dean Asselin Award

- Awarded to the best paper read by Wayne State University School of Medicine, Department of Psychiatry and Behavioral Neurosciences at the 8th Annual WSU/DPBN Alumni Association Conference and Research Day.
- Selected among competitive papers from medical students, residents, and graduate students.

Medical School Summer Research Fellowship

May 2013

- Research grant awarded to medical students before beginning their second year of medical school to work on a clinical/basic science project with a faculty member; \$3000 and \$1000 additional travel grant.
- I applied DCM to fMRI data acquired from at-risk adolescent schizophrenia offspring during a sustained attention task in order to investigate attentional demand-related differences in the modulation of frontal-thalamic pathways compared to healthy adolescent controls.

WSU SOM Research Day Symposium

January 2014

- Third place – third best clinical oral presentation selected among various clinical studies conducted at Wayne State University School of Medicine.

NANS Travel Fellowship Award

January 2018

- Travel fellowship awarded to trainees to encourage attendance at the annual North American Neuromodulation Society meeting.

LEADERSHIP AND COMMUNITY SERVICE

R.H.I.N.O – Rural Health International Non-Profit Organization

- Vice President (2009-2011).
- Organization is dedicated to providing medical aid to underserved populations.
- Formed RHINO-Sacred Trust partnership to implement ambulance service in the rural community of Kanakapura taluk in southern India.
- RHINO-Sacred Trust health camp held from 08/19/2010 – 08/25/2010; 345 patients were provided basic physical health measurements as well as blood pressure and

blood glucose measures.

- PNIG (Psychiatry and Neuroscience Interest Group) Coordinator 2013-2014
- Interest group serving to impart knowledge and opportunities for medical students towards a career in psychiatry

- Aladdin Dreamer 2017-Present
- Consultant on the scientific board of advisory
 - Phase 1: Sleep Optimization; the launch of the world's most advanced sleep tracker
 - Work currently underway on Phase 2: Brain stimulation thru transcranial alternating current stimulation (tACS) in REM sleep for induction of lucid dreams
 - www.aladdindreamer.com

EMPLOYMENT HISTORY

The Princeton Review 03/2011 – 04/2012
Ann Arbor, MI

- Certified Organic and General Chemistry Medical College Admissions Test (MCAT) Instructor.
- Taught organic and general chemistry to upper undergraduate and graduate level students preparing for medical school admission.
- Average class size of 20 students.

Wayne State University Academic Success Center 09/2010 – 04/2011
Detroit, MI

- Personal tutor in science, math, chemistry, and physics.
- Helped students to solve complex problems and learn conceptual material in their respective classes.
- Sessions conducted one on one and in groups of three to four.