

SANJANA MURTHY, B.S.

sanjanam.com | sanjana.murthy@mssm.edu | (510) 574-5001

CURRICULUM VITAE

EDUCATION

PURDUE UNIVERSITY | 2022

B.S. Brain and Behavioral Sciences

Senior Thesis: Ethnic Disparities in Adjudicated Adolescent Depression as a Function of Support Networks

NSF LSAMP Honors Scholar |
Purdue Excellence in Instruction |
TEDxPurdueU Executive Board

SELECTED AWARDS & SCHOLARSHIPS

2023 NextGen Psychology Scholar, University of Minnesota

2021 Distinction in Research Award (\$100), Purdue University

2019 NSF LSAMP Scholar (\$6500), Purdue University

2018 Distinction in Biomedical Sciences, PLTW

TRAININGS & CERTIFICATIONS

Professional Development:

Diversity, Equity, and Inclusion

Statement Training |

Phlebotomy trained |

Secondary MRI Operator trained

|Trained to administer WASI-II, D-

KEFS, NIH Toolbox, CAPE

Statistical: MATLAB | R | Statistical

Package for Social Sciences (IBM

SPSS)

Computer: NetStation | E-prime |

Electronic Medical Record (EMR) |

REDCap

RESEARCH EXPERIENCE

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | Clinical Research Coordinator

Waters Lab, Center for Advanced Circuit Therapeutics (C-ACT)

2023 - Present | *Advisor:* Allison Waters, Ph.D.

- Managing study identifying electrophysiological biomarkers to optimize DBS for TRD, including IRB approval management, participant recruitment and retention, and EEG data collection.
- Leading development of transcranial electric stimulation for enhancement of deep sleep in Parkinson's disease pilot study protocol, including developing procedure, IRB protocol study form, consent forms, recruitment material.
- Managing data collection during deep brain stimulation surgery for OCD using EEG.

COLUMBIA UNIVERSITY | Research Associate

Early Neuroimmune, Neuroimaging, and Neuropsychology (Early N3) Lab,

New York State Psychiatric Institute (NYSPI)

2022 - 2023 | *Advisor:* Marisa Spann, Ph.D., MPH

- Managed R01-funded study assessing self-regulatory deficits and early childhood brain/behavior outcomes, including IRB approval management, participant recruitment and retention, and data collection.
- Conducted prenatal sessions with second and third trimester mothers involving cognitive screening, fetal ultrasounds, and blood collection/processing.
- Conducted behavioral sessions with 4, 14, and 24 month old infants, and assisting in adult/infant MRIs, including data quality checks, scheduling, and infant preparation.

PURDUE UNIVERSITY | Research Assistant

Psychophysiological Analysis of Cognition, Emotion, and Reward (PACER) Lab

2022 | *Advisor:* Daniel Foti, Ph.D.

- Examined neural components of psychosis using MRI and EEG/ERP.
- Assisted in developing remote EEG kits for children with Angelman's Syndrome.

PURDUE UNIVERSITY | Research Assistant

Adjustment and Cultural Transition (ACT) Lab

2019 - 2022 | *Advisor:* David Rollock, Ph.D.

- Designed and executed independent project exploring social support and onset of depression in adjudicated adolescents.
- Presented independent work at **MPA 2020, APS 2020, and PUSRS 2020, 2021.**

PURDUE UNIVERSITY | Research Assistant

Social Cognition of Social Justice (SCSJ) Lab

2018 - 2019 | *Advisor:* Erin Hennes, Ph.D.

- Designed and managed study focusing on intergroup relationships, performed literature reviews, data collection, and data entry.
- Presented work at **Purdue University 2019 Undergrad Research Symposium.**

INVITED TALKS AND SYMPOSIA

- [6] **Murthy, S.** (2023, November). Rapid Antidepressant Effect of Ketamine on Interoceptive Processing. Nash Family Center for Advanced Circuit Therapeutics Center-Wide Journal Club at Mount Sinai West, New York, NY.
- [5] **Murthy, S.** (2022, December). Career Perspectives Panel. Invited panel discussion for Louis Stokes Alliance for Minority Participation Program at Purdue University, West Lafayette, IN.
- [4] **Murthy, S.** (2022, May). Social Determinants of Health and Ethnic Disparities in Depression. End of Semester Meeting at Purdue University, West Lafayette, IN.
- [3] **Murthy, S. & Rollock, D.** (2021, November). Ethnic Disparities in Depressive Symptoms as a Function of Social Support Networks. Purdue Undergraduate Fall Research Expo, West Lafayette, IN.
- [2] **Murthy, S. & Rollock, D.** (2021, May). Depression in Adjudicated Adolescents and type of support network from close adults. Purdue University Spring Research Symposium, West Lafayette, IN. **Awarded Distinction by College of Health and Human Sciences, Purdue University.**
- [1] **Murthy, S.** (2021, April). Scientific Writing and Organization. Invited guest lecture for SACNAS at Purdue University, West Lafayette, IN.

CONFERENCE POSTERS

- [11] Kim, D., O'Neill, S., **Murthy, S.**, Waters, A., Palmese, C. (2024, March). Behavioral health characteristics of pre-surgical Focused Ultrasound and Deep Brain Stimulation candidates. Submitted to Movement Disorders Society (MDS 2024), Philadelphia, PA.
- [10] Kim, D., O'Neill, S., **Murthy, S.**, Waters, A., Palmese, C. (2024, March). Behavior Medicine perspectives in pre-DBS patients with ET and PD. Submitted to Movement Disorders Society (MDS 2024), Philadelphia, PA.
- [9] Dellegge, M., **Murthy, S.**, Waters, A. (2024, March). Neuromodulation to Enhance Deep Sleep in Parkinson's Disease. To be presented at Friedman Brain Institute Neuroscience Retreat (FBI 2024), New York, New York.
- [8] Overton, J., Xu, E., **Murthy, S.**, Nunez, L., Pitts, S., Mayberg, H., Figeo, M., Jimenez-Shahed, J., Saez, I., Panov, F., Waters, A. (2024, March). Brain-Heart-Body Connections in Mental Health: Intracranial Electrophysiological Measures of Interoceptive Processing in the Insula. To be presented at Friedman Brain Institute Neuroscience Retreat (FBI 2024), New York, New York.
- [7] **Murthy, S.**, Dahill-Fuchel, J., Xu, E., Overton, J., Murrough, J., Fremont, R., Waters, A. (2024, March). Cortical Interoceptive Processing and the Rapid Antidepressant Effect of Ketamine. To be presented at Friedman Brain Institute Neuroscience Retreat (FBI 2024), New York, New York.
- [6] Turner, E., **Murthy, S.**, Bastos, R., Kodaiarasi, K., Noumair, M., Phalen, P. (2022, November). Contact with mental illness and stigmatization of voice hearing. Presented at the Annual Congress of the Schizophrenia International Research Society (SIRS 2023), Toronto, Canada.
- [5] Aydin, E., Rodriguez, R., Monk, C., **Murthy, S.**, Peterson, B., Scheinost, D., Spann, M. (2022, November). Insights into the complex immune environment during pregnancy and association with the developing human connectome. Presented at the Association for Clinical and Translational Science (ACTS 2023), Washington, DC.
- [4] **Murthy, S.**, Osnaya, A., & Rollock, D. (2020, May). Depth of social support networks vs breadth of social support networks in predicting depression among adjudicated adolescents. Presented at Association for Psychological Science.

- [3] **Murthy, S.**, Osnaya, A., & Rollock, D. (2020, April). Negative emotionality does not predict future substance abuse among adjudicated adolescents. Presented at the Annual Meeting of the Midwestern Psychological Association.
- [2] **Murthy, S.**, Dang, L., & Hennes, E. (2019, August). Perceptions of loyalty and competence within system challenging new entrants. Presented at Purdue Undergraduate Summer Research Symposium, West Lafayette, IN.
- [1] **Murthy, S.**, Dang, L., & Hennes, E. (2019, June). Receptiveness of policy suggestion from new entrants vs incumbents. Presented at Purdue University Undergraduate Research Expo, West Lafayette, IN.

PUBLICATIONS

*Manuscript in preparation

- [2*] Overton, J., Xu, E., **Murthy, S.**, Pitts, S., Waters, A. (In preparation). Brain-Heart-Body Connections in Mental Health: Intracranial Electrophysiological Measures of Interoceptive Processing in the Insula.
- [1*] Turner, E., **Murthy, S.**, Noumair, M., Kodaiarasu, K., K Jabbour, S., Satinsky, E., (In preparation). Adverse Childhood Experiences (ACEs) and problematic substance use in low- to middle- income countries: a systematic review. Prospero Registration Number: CRD42021278160