Sattvik Basarkod

sattvik.b@gmail.com | www.sattvik-basarkod.com

EDUCATION

Doctor of Osteopathic Medicine (DO) July 2027 – May 2031
California Health Sciences University (CHSU), Clovis, CA

Bachelor of Science (BS) in Neuroscience, Honors September 2020 – December 2023
Wayne State University, Irvin D. Reid Honors College, Detroit, MI
Minor in Health Psychology | GPA: 3.96
Honors Thesis: Corticolimbic Structural Changes Following Trauma Exposure in Preadolescent Children

CLINICAL EXPERIENCE

Neurology Medical Scribe / Assistant (Full Time) November 2025 – April 2026
Michigan Neurology Associates and Pain Consultants, Clinton Township, MI michiganneurologyassociates.com

- Roomed patients, recorded vitals, and took medical histories, ROS, and medication lists in AdvancedMD (EMR)
- Administered screening tools (Epworth Sleepiness Scale, PHQ-9, fall risk) and prepared imaging reports for the neurologist and neurosurgeon
- Presented cases to the attending and scribed HPI, exam, assessment, plan, and diagnosis/billing codes
- Placed testing orders (EMG, EEG, MRI, labs, DME) and sent prescriptions to the pharmacy
- Administered intramuscular injections (B12, Toradol, Depakote)

Crisis Text Line Counselor (Part Time) April 2021 – June 2022
Crisis Text Line, New York, NY (remote)

- Completed 30-hour crisis intervention training in suicide risk, self-harm, and mental disorders
- Supported 500 texters over 200 hours through crises including suicidal ideation, self-harm, abuse, and grief, using active listening to de-escalate
- Referred texters to appropriate agencies and coping resources

Behavioral Technician (Part Time) May 2021 – January 2022
Comprehensive Early Autism Services (EAS), Sterling Heights, MI

- Delivered 1:1 Applied Behavior Analysis (ABA) therapy to children on the autism spectrum, building communication, social, and motor skills through positive reinforcement
- Recorded progress and behavior data and worked with BCBAs and guardians to adjust each child's plan

RESEARCH EXPERIENCE

Detroit Trauma Project, *Wayne State University School of Medicine, Detroit, MI | PI: Tanja Jovanovic, PhD*
detroittraumaproject.com

Clinical Research Assistant (Full Time) August 2024 – June 2025
Acute to Chronic Pain Signatures (A2CPS): multisite NIH study (5U54DA049115) of biomarkers for chronic pain after knee replacement and thoracic surgery

- Collected blood, saliva, and urine and centrifuged blood for genomic testing; took post-surgical medical and medication histories
- Performed quantitative sensory testing: pressure-pain threshold, temporal summation, conditioned pain modulation, and cuff algometry in the MRI

Transauricular Vagus Nerve Stimulation (taVNS): pilot study of noninvasive vagus nerve stimulation in patients with PTSD symptoms

- Recruited and screened patients for contraindications and cognitive impairment (MoCA)
- Administered taVNS and collected skin conductance, heart rate, and eye-blink data during a fear-potentiated startle paradigm; analyzed sympathetic–parasympathetic balance before and after stimulation

Research Assistant and Project Coordinator (Part Time, Honors Student) May 2022 – May 2024

Critical Periods Longitudinal Study: NIH-funded study (R01-MH111682) of brain development and fear learning in children with trauma. Project lead from recruitment through data analysis and publication

- Ran mock and actual MRI scans with children and processed structural MRI data in FreeSurfer
- Measured mobile skin conductance during trauma interviews and analyzed its link to PTSD symptoms; wrote the eSense SOP used by Wayne State and Ukrainian collaborators
- Honors thesis: quantified rACC and vmPFC cortical thickness and amygdala and insula volume using FreeSurfer, ENIGMA QC, and MATLAB

Clinical Interviewer (Part and Full Time) May 2022 – June 2025

- Administered the UCLA PTSD Reaction Index and MINI to assess PTSD and screen for psychiatric illness in children and adults
- Attended biweekly trauma case conferences and suicide safety training

MANUSCRIPTS IN PRESS

1. France, J.M., Valbrun, S., Grasser, L.R., Wiltshire, C.N., **Basarkod, S.**, Davie, W.M., Reda, M., George, S., Winters, S., Bradley-Davino, B., Stenson, A., van Rooij, S., Stevens, J., Daugherty, A.M., Jovanovic, T. (September 2025). *Trauma from the Eye of the Beholder: Reporter Discordance in Child's Trauma, Psychopathology, and Neurobiology*. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging.
2. **Basarkod, S.**, Valbrun, S., Wiltshire, C.N., France, J.M., Davie, W., Winters, S., George, S., Jovanovic, T. (January 2024). *Prospective measurement of skin conductance response during trauma interview predicts future PTSD severity in trauma exposed children*. Journal of Mood and Anxiety Disorders.

MANUSCRIPTS IN REVIEW

1. **Basarkod, S.**, Lipshutz, R., Valbrun, S., Wiltshire, C.N., Reda, M., France, J.M., Ely, T., Minton, S., Winters, S., George, S., van Rooij, S., Stevens, J., Jovanovic, T. (In Review). *Amygdala volume as a risk and resiliency factor for PTSD symptoms in trauma-exposed youth: cross-sectional and longitudinal replication*. Neuroimaging of Human Emotion (book chapter).

ORAL PRESENTATIONS

1. **Basarkod, S.**, Wiltshire, C.N., France, J., Valbrun, S., Davie, W., Winters, S., George, S., Jovanovic, T. (2024, May). *Sex-Specific Associations between Brain Structures and Anxiety Symptoms in Preadolescent Children*. Society of Biological Psychiatry (SOBP), Austin, TX.
2. **Basarkod, S.**, Wiltshire, C.N., Davie, W., Burnette, T., Reda, M., France, J., Wanna, C.P., Winters, S., Minton, S., Hinrichs, George, S., Stenson, A., Jovanovic, T. (2023, May). *Amygdala Reactivity is Associated with Skin Conductance Response in Predicting Future PTSD and Anxiety Symptoms in Children with Trauma Exposure*. Translational Neuroscience Program Annual Symposium, Detroit, MI.

NATIONAL / INTERNATIONAL POSTER PRESENTATIONS

1. **Basarkod, S.**, France, J., Valbrun, S., Wiltshire, C.N., Poplin, T., Winters, S., George, S., Jovanovic, T. (2025, April). *Childhood Trauma Affects Rostral Anterior Cingulate Cortex (rACC) Development During Preadolescence*. Society of Biological Psychiatry (SOBP) Conference, Toronto, ON, Canada.
2. France, J.M., Khatib, D., Valbrun, S.A., **Basarkod, S.**, Davie, W.M., Diwadkar, V.A., Stanley, J.A., Jovanovic, T. (2025, April). *Altered Cortical Glutamatergic Neurotransmission in Trauma-Exposed Adolescents During an Emotional Inhibitory Control Task*. Anxiety and Depression Association of America (ADAA) Conference, Las Vegas, NV.
3. **Basarkod, S.**, Wiltshire, C.N., France, J., Valbrun, S., Winters, S., George, S., Jovanovic, T. (2024, October). *Why some, but not all trauma leads to future PTSD: Structural factors that moderate the positive association between trauma exposure and future PTSD symptoms in preadolescents*. International Society for Developmental Psychobiology (ISDP) Annual Conference, Chicago, IL.

4. **Basarkod, S.**, Wiltshire, C.N., France, J., Valbrun, S., Jovanovic, T. (2024, May). *Sex-Specific Associations Between Brain Structures and Anxiety Symptoms in Preadolescent Children*. National Conference on Undergraduate Research (NCUR), Long Beach, CA.
5. **Basarkod, S.**, Wiltshire, C.N., France, J., Valbrun, S., Winters, S., George, S., Jovanovic, T. (2024, April). *Right Amygdala Volume Predicts Future PTSD Severity in Children with Trauma Exposure*. Center for the Study of Traumatic Stress (CSTS), Virtual Conference. **Best Clinical Poster Award**

SELF-PUBLISHED BOOK

1. **Basarkod, Sattvik.** (May 2022). *Nature of Reality: A Personal Reflection on Several Epistemological Concepts*. Paperback and Kindle, Amazon Publishing. a.co/d/eIw3XYU

HONORS AND AWARDS

CHSU Scholarship, Central Valley Community Foundation 2026 – 2028
$10,000 scholarship for the first two years of medical school

Best Clinical Poster Award, 17th Annual Amygdala, Stress, and PTSD Conference April 2024
amygdalaptsdconference.org – poster award winners

UROP Warrior Scholars Award, Undergraduate Research Opportunities Program March 2023
Top 8 poster presenter ($250). Abstract: *Mobile Skin Conductance Response is a Biomarker for Future PTSD and Anxiety Symptoms in Children with Trauma Exposure*

Warrior Scholarship, Irvin D. Reid Honors College 2020 – 2023
$3,000 each Fall and Winter semester, awarded on admission to the Honors College

Dean's List, Wayne State University 2020, 2021, 2022, 2023

Senior Year Departmental Award in Theory of Knowledge (TOK) 2020
Top TOK student in the class of 2020; presented on confirmation bias and cognitive dissonance in education.

CERTIFICATIONS

Basic Life Support (BLS), American Heart Association Expires July 2028
Verify eCard

Certified Clinical Medical Assistant (CCMA) Expires September 2027
Verify certification

Certified Phlebotomy Technician (CPT), Phlebotomy Training Specialists Issued October 2025

VOLUNTEERING AND COMMUNITY OUTREACH

Brain Day Volunteer Coordinator, Michigan Science Center March 2022, March 2023
- Organized lab demonstrations of skin conductance and stress-reduction strategies at a children's science fair, supporting study recruitment

Neuroscience Summer Middle School Outreach, Detroit Recreation Centers July 2023 – September 2023
- Led hands-on activities with brain specimens, EEG, and skin conductance at five Detroit summer camps

Neuroscience Brains 101 Summer Camp Coordinator, Wayne State University July 2022, July 2023
- Scheduled faculty speakers and led TMS, EEG/EMG, brain anatomy, and dissection demos for high school students, including a rubber hand illusion project

LEADERSHIP AND PROFESSIONAL SERVICE

Founder and President, MindMeditate WSU December 2020 – December 2023

Wayne State University Student Organization mindmedwsu.webnode.page

- Founded a student mindfulness organization and led weekly meditation sessions and a two-semester MBSR course
- Raised over $1,000 and led the Essential Gift Bag Project, assembling 70 bags of essentials for people experiencing homelessness in Detroit with three partner organizations (details)

Director of Research, Nu Rho Psi September 2022 – December 2023

Wayne State University Student Organization | Advisor: Dr. Tom Fischer wsunurhopsi.org

- Built a faculty research directory to match students with labs and coached students on professional outreach
- Organized faculty journal clubs and a PhD student panel on translational neuroscience