

GOURI BABU AMBILY, M.A

CURRICULUM VITAE

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EDUCATION

Master of Arts in General Psychology, SUNY Buffalo, NY 07/2021- 06/2022

Project: *Cognitive Impairment in Multiple Sclerosis: The Role of Depression*

Bachelor of Science in Biotechnology, Amrita University, India 07/2017- 07/2020

Thesis: *Decoding Motor Behavior Biosignatures of Arm Movement Tasks using Electroencephalography*

PROFESSIONAL EXPERIENCE

Clinical Research Specialist, Department of Obstetrics & Gynecology 08/2024 - Present

Indiana University School of Medicine, Indianapolis, IN

PI: David M Haas, MD

- Screen, recruit, and obtain consents from participants for maternal and infant health studies, including an herbicide exposure study.
- Collect biospecimens such as urine and cheek swabs from pregnant women and newborns, ensuring compliance with ethical and regulatory standards.
- Coordinate sample processing, shipping and drop off to Indiana Biobank, maintaining adherence to protocol standards.
- Maintain proper recording and archival of all regulatory documents; stay current on regulatory affairs and research best practices by attending training sessions, seminars, and team meetings.
- Engage in community programs, such as *Bumps and Babies* to promote research recruitment and gain insights into local resources supporting pregnancy, postpartum and infant care.
- Assist in developing and implementing Phase Two study protocols focusing on early childhood development, ensuring alignment with research objectives and regulatory standards.

Clinical Research Assistant, Department of Obstetrics & Gynecology 10/2022 - 07/2024

Indiana University School of Medicine, Indianapolis, IN

PI: David M Haas, MD

- Recruited 420 participants and recorded study data in databases in adherence with the assigned protocol and in accordance with good clinical practices.
- Recruited participants, collected, and processed blood samples for a preeclampsia study sponsored by Roche Diagnostics.
- Coordinated participant follow-up visits, monitored emails, and managed payments to maintain participant engagement and ensured adherence to study protocols.
- Ensured proper documentation of Case Report Forms, regulatory documents, and PI notes with quality and accuracy.

Grading Assistant, Department of Psychology 03/2022 - 05/2022

The State University of New York at Buffalo, Buffalo, NY

Courses: PSY 427 (Adult Development and Aging) & PSY 423 (Mood Disorders)

- Graded student assignments such as media portfolios, interviews, discussion boards, and exams
- Provided feedback to students.

RESEARCH EXPERIENCE

Volunteer Research Assistant, Perinatal Traumatic Stress Lab 06/2023 - Present
Indiana University Indianapolis, IN

PI: Michelle Miller, PhD

- Screen, recruit, and obtain consents from eligible participants from maternal health care clinics for the Mental Health Equity Study.
- Facilitate completion of Posttraumatic Stress Disorder Checklist for DSM 5(PCL-5) and score the data for analysis.
- Ensure accurate data entry into databases, ensuring compliance with study protocols and ethical standards.

Volunteer Research Assistant, Cardiovascular Behavioral Medicine Lab 03/2023 - Present
Indiana University Indianapolis, IN

PI: Jesse Stewart, PhD

- Recruit participants for the Strengthening Hearts by Addressing DisruptEd Sleep (SHADES) mechanistic trial.
- Collect pre- and post-assessment data, including physiological and psychological measures.
- Contribute to graduate student projects on examining intersection of insomnia, cardiovascular health, and depression, and assist with manuscript preparation.
- Completed training in Mindware Technologies in assessing autonomic function.
- Recruited and administered the Insomnia Severity Index (ISI) as a part of the HIV-Insomnia study to evaluate insomnia symptoms in patients with HIV.

Graduate Research Assistant, Division of Cognitive and Behavioral Neurosciences 02/2021- 06/2022
The State University of New York at Buffalo, NY

PI: David Shucard, PhD, FAASM, FAPA

- Administered neuropsychological assessments and evaluated cognitive functioning using electroencephalography (EEG) in patients with multiple sclerosis (MS).
- Analyzed and interpreted data from 90 participants, focusing on PTSD symptoms and its impact on their decision-making process.
- Trained graduate students in conducting EEG and neuropsychological assessments.
- Conducted independent research investigating processing speed impairment and effectiveness of cognitive training interventions in patients with MS.
- Prepared a review on the relationship between depression, cognitive impairment, and MS with existing evidence.

Undergraduate Research Assistant, Computational Neuroscience Lab 01/2020 - 07/2020
Amrita School of Biotechnology, Kerala, India

PI: Shyam Diwakar, PhD

- Developed experimental paradigms including board games and questionnaires to study brain wave activation patterns during actual arm movement and imagined movement.
- Coordinated participant screening, recruitment, and implementation of EEG on 20 college participants.
- Analyzed data from three trials involving 16 participants using MATLAB, identifying similarities in brain activation patterns between imagined and real time arm movement.
- Co-authored the manuscript for the imagery study and presented the findings at *International Conference on Cybernetics, Cognition and Machine Learning Applications*.

PUBLICATIONS AND MANUSCRIPTS

Published Paper

Radhamani, R., Anil, A., Manoj, G., **Ambily, G. B.**, Raveendran, P., Hari, V., & Diwakar, S. (2021). Decoding Motor Behavior Biosignatures of Arm Movement Tasks Using Electroencephalography. In *Cybernetics, Cognition and Machine Learning Applications: Proceedings of ICCMLA 2020* (pp. 109-116). Springer Singapore.

Manuscripts in Preparation

- Yoon, J., Schuiling, M. D., Jones, Z. M., **Ambily, G. B.**, & Stewart, J. C. Association of Depression Remission with Cardiovascular Disease Risk Biomarkers: eIMPACT Randomized Controlled Trial
- Jones, Z. M., Schuiling, M. D., Wu, W., Yoon, J., **Ambily, G. B.**, & Stewart, J. C. Systemic Inflammation as a Moderator of the Effectiveness of Modernized Collaborative Care for Depression: eIMPACT Trial.

CONFERENCES AND PRESENTATIONS

- Central Association of Obstetricians and Gynecologists (CAOG). (2024, October). *Annual Conference*. Indianapolis, Indiana
- International Conference on Cybernetics, Cognition, and Machine Learning Applications (ICCMLA). (2020, July). Presentation: “*Decoding Motor Behavior Biosignatures of Arm Movement Tasks Using Electroencephalography*.” Online (hosted in India).

SKILLS

Behavioral, Clinical Assessment: Insomnia Severity Index, PCL-5, California Verbal Learning Test, Paced Auditory Serial Attention Test, Stroop Test, Symbol Digit Modality Test, Vividness of Visual Imagery Questionnaire.

Software Experience: Proficiency in MATLAB, Mindware, SPSS, Net Station, and SPM, as well as in MS Office Suite and Redcap.

VOLUNTEER WORK

Global Voices Speaker, Indiana University, IN

- Delivered presentations on *Hinduism and the Indian Epic Ramayana* to high school students and actively engage in initiatives to share cross-cultural experiences, promoting cultural diversity.

Community Outreach Leader, Kerala, India

- Coordinated and led awareness sessions on *Cancer and Lifestyle Problems* for high school students, promoting health literacy and preventive care strategies.