






GOPIKA JAYASANKAR

RESEARCH PROFESSIONAL

CONTACT

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SKILLS

MRI/EEG/DTI/TMS

SPM/FSL/MRI - DTI Tractography

Statistical Analysis

User Flow/Wireframing/Card sorting

Usability Testing/Prototyping

HTML/CSS/Javascript

Human behavior

Research and Design

EDUCATION

Bachelor of Arts in Psychology

University of California, Irvine

2016-2019

Minor in Biology

Dean's Honor List

Certificate in UX Design

CareerFoundry

2023-2024

Researched and designed an intuitive mobile application named Vela for water sports enthusiasts who need to check the weather before they set out on the water. Conducted extensive user research and testing in order to ensure user safety and accessibility. I also designed my portfolio website using front end development tools.

PROFILE

Detail-oriented and ambitious psychology professional with an extensive research background seeking to apply skills in collecting and analyzing data to innovate and design seamless user experiences.

WORK EXPERIENCE

Research Assistant

University Neurocognitive Imaging

2022-2024

- Writing a case study showcasing brain imaging's utility in understanding criminal behaviors and performing extensive research on the link between brain and behavior
- Assessing PET and MRI scans utilizing SPM (statistical parametric mapping) for analysis of brain imaging sequences, loading results into VNCI for analysis of volume data, and generating ROIs (regions of interest) to extract specific regional data
- Utilizing programs such as FSL, a brain atlas, to anatomically label ROIs, NeuroQuant to quantify brain structure volume, and MRI tractography to map location and direction of white matter bundles

Research Assistant

Learning and Decision Neuroscience Lab

2020-2020

- Organized gambling and causal learning tasks for research participants and observed/recorded responses to questions regarding risk-taking and learning strategies
- De-briefed participants on study procedures and addressed participant concerns
- Certified in MRI Safety and acquired experience in arranging a MRI (magnetic resonance imaging) machine for subjects
 - Experience in Python and MATLAB functionalities

Research Assistant

Sleep and Cognition Lab

2018-2019

- Supported set up of EEGs (electroencephalograms) and delegated working memory tasks to participants in order to study the relation between sleep and memory formation
- Piloted studies that analyzed working memory capacity using an interactive Minecraft landscape and significantly reduced flaws in the landscape through keen observation

Intern

TMS Health and Wellness

2019

- Employed Care Tracker, an EMR (electronic medical records) system, to manage patient information and bill patients appropriate medical codes
- Well-versed in TMS (transcranial magnetic stimulation), neurofeedback, and mindfulness meditation practices to reduce depression, anxiety, and other disorders