



## **SHP Student Interns for Research and Scholarly Activities Project Proposal Form**

### **Instructions:**

Please fill each box to the right of the required fields, obtain the required signature and return via email to Michele Sisco ([mcoral@shp.rutgers.edu](mailto:mcoral@shp.rutgers.edu)) by **March 24, 2025**.

If you are sending attachments, please ensure your contact information is added to all your forms.

### **Faculty Contact Information:**

Date submitted: **03-24-2025**

Faculty Name: **Soha Saleh**

Department/Program: **RMS / Research**

Telephone number: **973 -972 -0472**

E-mail: **soha.saleh@rutgers.edu**

### **Project Detail:**

Project Title: (56 characters max)

Brain Connectivity as a Predictor of Stroke Recovery

Hypothesis:

In this project we hypothesize a direct relationship between EEG resting state functional connectivity (RSC) and clinical outcomes measured at several timepoints during recovery post stroke.

Description:

(Include design, methodology, data collection, techniques, data analysis to be employed, evaluation and interpretation methodology for research component)

In an ongoing randomized controlled clinical trial, funded by NIH, we are collecting resting state EEG data within 30 days post stroke and at two additional timepoints, post 10 weeks of intensive training, and at 6 months post stroke. In addition to resting state EEG data, neuroimaging, clinical, and functional MRI data are acquired. Data analysis in this project focuses on identifying those patients who respond favorably to intervention and those who are non-responders and if there is brain connectivity features that can predict response to therapy. EEG is easy to use, safe, inexpensive, and often more acceptable to patients.

Specific Student Responsibilities:	Student is expected to perform a literature review on most recent students on stroke recovery prognosis using neurophysiology following guidelines defined by Rutgers University library. In parallel to working on literature review, the student will support data analysis and manuscript preparation.
Start / end date of project:	June 15 2025 – August 14 2025

WHAT OTHER EDUCATIONAL OPPORTUNITIES ARE AVAILABLE TO STUDENTS? (e.g., journal club, seminars, clinic, rounds) WHERE DO YOU PLAN TO PRESENT OR PUBLISH THE FINDINGS WITH THE STUDENT? (e.g., national or state meetings, newsletter or journal, SHP poster day)	Students will be expected to participate in lab meetings, present papers, and write conference abstract if their findings were significant.
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**CHECK ALL APPROPRIATE BOXES BELOW AND PROVIDE REQUESTED INFORMATION.**

This project is: ☐ clinical ☒ laboratory ☒ behavioral ☐ survey ☐ educational  
☐ Other: please specify \_\_\_\_\_

☐ This project involves the use of human subjects (including chart review, retrospective studies and questionnaires).

Pending ☐ Approved ☒ IRB Protocol Number  
 CR00027013 \_\_\_\_\_

**IRB approval must be obtained by June 2025**

 PT, DPT, PhD.

March 24, 2025

Signature of Department Chair

Date