



UNIVERSITY OF SASKATCHEWAN

School of
Rehabilitation ScienceCOLLEGE OF MEDICINE
REHABSCIENCE.USASK.CA104 Clinic Place
Saskatoon, SK S7N 2Z4 Canada
Telephone: 306-966-6579
Fax: 306-966-6575**Faculty Project Proposal for MPT Research Projects 2023-24****Personal Information**

Name:	Sarah Donkers	NSID:	sjd674
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Project Details

Project Title:	Enhancing functional neurorecovery for individuals with neurological conditions		
Expected Start Date:	April 2024		
Project Length:	<input type="checkbox"/> Full Project (300 Hours)	<input type="checkbox"/> Half Project (150 Hours)	
Project Level	<input type="checkbox"/> First Year	<input type="checkbox"/> Second Year	<input checked="" type="checkbox"/> First or Second Year
Project Type:	<input checked="" type="checkbox"/> Clinical	<input type="checkbox"/> Biomedical	<input type="checkbox"/> Quality Improvement
<input type="checkbox"/> Retrospective Chart Review		<input type="checkbox"/> Other (specify):	
Will this project be linked to a research clinical placement?		possibly <input type="checkbox"/> Yes / <input type="checkbox"/> No	
If yes, have you received approval from the Academic Coordinator of Clinical Education? Please attach a letter of support		<input type="checkbox"/> Yes / <input type="checkbox"/> No	

Project Description

Include background, research topic, and description of general duties.

Methods of priming the brain to enhance neuroplasticity are gaining interest in people with neurological conditions. Measures of neuroplasticity to help evaluate recovery include neurophysiological approaches like function near-infrared spectroscopy (fNIRS) and trans-cranial magnetic stimulation (TMS). The details of this opportunity will be shaped based on student's interest but will include some data analysis of neuroplasticity measures (e.g., fNIRS data), some literature review, and the opportunity to participate in some data collection (e.g., using brain priming for individuals with neurological conditions).