

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

**Instructions:**

Please fill out the form and return via email to Michele Sisco ([mcoral@shp.rutgers.edu](mailto:mcoral@shp.rutgers.edu)) by **March 25, 2024**. **Please fill each box to the right of each required field.** If you are sending attachments, please ensure your contact information is added to all your forms.

**Faculty Contact Information:**

Date submitted:	3-25-24
Faculty Name:	Deutsch
Department/Program:	RMS
Telephone number:	2-2373
E-mail:	deutsch@rutgers.edu

**Project Detail:**

Project Title: (56 characters max)	VCYCLE: Virtual Cycling in Persons with Parkinson Disease
Hypothesis:	Exercise intensity and enjoyment will be greater in the virtual environment using interval cycling compared to non-VR cycling
Description: (Include design, methodology, data collection, techniques, data analysis to be employed, evaluation and interpretation methodology for research component)	This study occurs over two sessions. Participants complete a clinical test of motor performance and questionnaire about physical activity. They then bicycle in a virtual environment in both an immersive and semi-immersive condition. On the second day they return and cycle in a semi immersive environment as well as without any virtual environment (4 bouts total) in both a continuous or interval mode. Oxygen consumption is monitored with a metabolic cart. Participants report on enjoyment and effort in all trials. There are open ended questions about their experience.
Specific Student Responsibilities:	Screening of participants for eligibility. Participation in data collection (administration of questionnaires and learning how to use the virtual environments and the metabolic cart) interim data analysis. Reading the literature as appropriate. Contribution to scientific writing as appropriate.

Start / end date of project:	To be discussed with students in order to best coordinate with their schedule.
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**Educational:**

WHAT OTHER EDUCATIONAL OPPORTUNITIES ARE AVAILABLE TO STUDENTS? (e.g., journal club, seminars, clinic, rounds)	Journal club Lab meetings Interaction with visiting scientists or international collaborators  Interaction with other students in the lab.
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)	Rehabilitation or Neural Engineering journals.  There will likely be intermediate dissemination opportunities to be determined as appropriate

**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 ro2020000518

**IRB approval must be obtained by June 2024**

 PT, DPT, PhD.

March 25, 2024

\_\_\_\_\_  
Signature of Department Chair

\_\_\_\_\_  
Date

OR-For internal use  
**Form: (1)**

**Reviewed date:**\_\_\_\_\_

**Date processed on website:**\_\_\_\_\_