RUTGERS
School of Health Professions

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

Instructions:
Please fill out the form and return via email to Nipa Sahasrabuddhe (ns1115@shp.rutgers.edu) by **March 31, 2023**. **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:	3-28-23
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 continous 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	To be discussed with students in order to best coordinate

project:	with their schedule.

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 X☐ laboratory ☐ behavioral ☐ survey ☐ educational

☐ Other: please specify_____

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

Pending ☐ Approved x☐ IRB Protocol Number Pro2020000518

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IRB approval must be obtained by June 2023

PT, DPT, PhD.

Signature of Department Chair

March 28, 2023
Date

OR-For internal use
Form: (1)

Reviewed date:_4/4/23_____
Date processed on website:_____