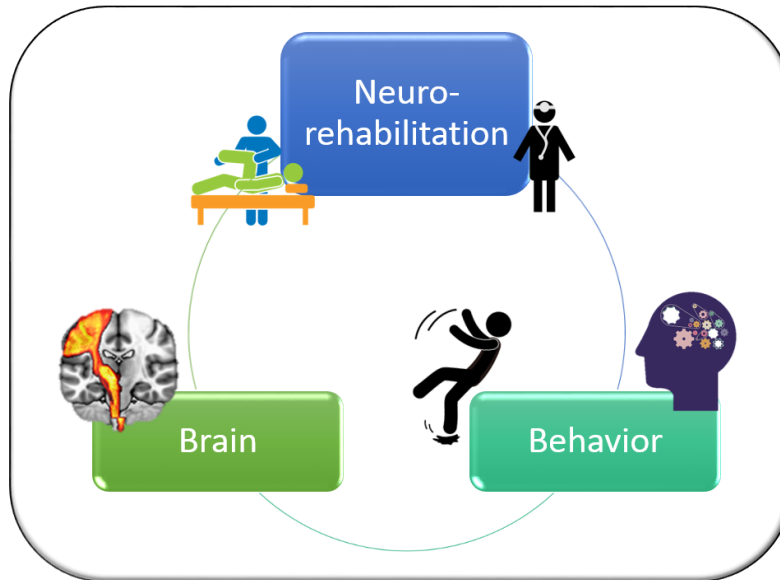


## GAIT AND BALANCE DISORDERS LABORATORY



The gait and balance disorders laboratory focuses on understanding causes and treatments for mobility in neurological populations including (but not limited to) people with Parkinson's disease and multiple sclerosis. Our overall goal is to improve gait, reduce falls, and increase quality of life in these groups. To understand gait and balance disorders and improve quality of life, we apply biomechanical (i.e. motion capture), neuropsychological (cognitive assessments), and imaging techniques (fMRI).

Specific projects that are or will be ongoing in the lab include: 1) characterizing biomechanics prior to and during slips (i.e. loss of balance exposures); 2) measuring the ability of patients to improve responses to slips, 3) identification of responders and non-responders to physical therapy, and 4) understanding cognitive underpinnings of falls.

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