Rachael Seidler

Professor at University of Florida

Gainesville, FL, US

Rachael Seidler researches the neural control of movement in health and disease, with a specific focus on motor learning.

Biography

Rachael Seidler's research focuses on the neural control of movement in health and disease, with a specific focus on motor learning. She uses a range of neuroimaging and neuromodulation techniques coupled with precise measures of movement and cognitive function to determine the neurocognitive underpinnings of motor control. Rachael has expertise working with a variety of populations including healthy young and older adults, patients with Parkinson?s disease, and NASA astronauts in both basic science and intervention experiments. Her work has been supported by the NIH, the NSF, NASA, the National Space Biomedical Research Institute and a variety of private foundations. Active work in her lab includes investigation of human brain plasticity with spaceflight and experiments investigating which cognitive processes support skill acquisition and how they map onto underlying neural pathways.

Areas of Expertise

Space, Parkinson's, Cognitive Ageing, Neuroscience and the Brain, Neuroplasticity, Spaceflight Human Research

Affiliations

Frontiers in Human Neuroscience : Associate Editor, Journal of Motor Behavior : Executive Editor, ISRN Rehabilitation : Editorial Board, Frontiers in Cognition : Review Editor

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