Panther Rehab Rounds
Grand Rounds Lecture Series
"Exoskeletons for Pediatric Gait Training: Novel Strategies and Effects"

Presented by:
Thomas C. Bulea, PhD
Tenure Track Investigator
National Institutes of Health

April 20, 2022
7:00am

Thomas C. Bulea is a tenure track investigator within the Functional & Applied Biomechanics (FAB) section of the Rehabilitation Medicine Department at the NIH Clinical Center. Dr. Bulea received his Ph.D. in biomedical engineering from Case Western Reserve University, where his research focused on development of hybrid neuroprostheses to restore standing and walking function in individuals with paralysis. He completed a post-doctoral fellowship at the National Institutes of Health and a visiting post-doctoral fellowship at the University of Houston, both focused on the use of electroencephalography (EEG) to study cortical activation patterns relating to standing and walking function. He joined FAB as a staff scientist in 2014, where he focused on creating new signal processing tools to extract movement-related cortical activity from EEG and fNIRS and he led FAB’s effort to develop and evaluate a new pediatric exoskeleton for children with cerebral palsy. He now heads the NeuroRobotics group, whose research utilizes novel neural interfacing approaches to study movement disorders and their treatment with devices and technology with the goal of optimizing human-machine interactions to engineer better rehabilitation outcomes. Dr. Bulea’s research has been recognized through receipt of a NIH Clinical Center Director’s Award and an NIH Director’s Award. Dr. Bulea also serves as the Training Director for the Rehabilitation Medicine Department and as an Associate Editor of IEEE Transactions on Neural Systems and Rehabilitation Engineering.

We welcome anyone interested to attend Panther Rehab Rounds. For information, or if you have special needs, contact Jessa Darwin (jcd79@pitt.edu), Dept. of PM&R.

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