

Übersicht zu möglichen Bachelor/Masterarbeitsthemen im Arbeitsbereich Neuromotorik und Training

Theoretical / Empirical	Contact Information	Student level (BSc/MSc)	Desirable skills	Possible timeframe	
Age effects on motor related cortical potentials during the flanker task	Empirical	stephanie.froehlich@uni-muenster.de	BSc/MSc/MEd	Dataprocessing with Matlab and/or Python, Interest in EEG, high level of self-organisation	asap
Erstellung und Evaluation von digitalen Lehrmaterial für das Seminar Leichtathletik	Theoretisch/praktisch/empirisch	matthias.hendricks@uni-muenster.de	BSc/MSc	Erfahrungen / Interessen im Bereich LA	ab jetzt
A systematic review on the effects of dual tasking on motor control (with focus on motor variability)	Systematic Review	julian.rudisch@uni-muenster.de	BSc/MSc	N/A	ASAP
Gender differences in training effects on cognitive and dual-task performance in older adults	Empirical	robert.stojan@uni-muenster.de	BSc/MSc	R (basic, not mandatory)	ASAP
Effects of cardiovascular fitness on brain function during dual-task walking or driving in older adults	Empirical	robert.stojan@uni-muenster.de	MSc	R (basic, not mandatory)	ASAP
Effects of physical, cognitive, and/or combined physical training on brain activation during dual-task walking and driving in older adults	Empirical	robert.stojan@uni-muenster.de	BSc/MSc/MEd	N/A	ASAP
A systematic review on the brain functional aspects of complex motor-cognitive real-world tasks in older adults	Systematic Review	robert.stojan@uni-muenster.de	MSc/MEd	N/A	ASAP
Neural Correlates of Freezing of Gait in Parkinsons' Disease	Empirical/Systematic Review	robert.stojan@uni-muenster.de	MSc/MEd	N/A	ASAP
Grip Forces and Kinematics in Human Handover Actions https://www.uni-muenster.de/Sportwissenschaft/Neuromotor-Behavior/forschung/handai/index.html	Empirical	lena.kopnarski@uni-muenster.de julian.rudisch@uni-muenster.de	BSc/MSc Lehramt	Motion Tracking, Grip Force Measurements, R (not mandatory)	ASAP
Movement behaviour in children during corona times	Empirical	tajanssen@wwu.de	Bachelor	data will be detected in a pilot study that will start around February/march	Starting of the pilot in Februrary/March
The effects of a mid-season World Cup on injury numbers in the English Premier League	Empirical	julianr@uni-muenster.de	BSc / MSc	Website scraping is useful.	ASAP
The evolution of female match play: are females harder, better, faster, stronger	Empirical	julianr@uni-muenster.de	BSc / MSc		ASAP
Most common symptoms and perceived performance decrements in female athletes: A systematic review	Review	julianr@uni-muenster.de	BSc / MSc	Good literature searching skills	ASAP
Recording and analysis of fNIRS signals during cognitive tasks in post-COVID patients and control subjects (old and young).	Empirical	dieter.kutz@uni-muenster.de	MSc	Knowledge of fNIRS measurements	ASAP
Dynamic analysis of fNIRS signals in postCOVID patients	Theoretical / empirical	dieter.kutz@uni-muenster.de	MSc	Knowledge of fNIRS measurements	ASAP