Faculty of Psychology
Chair of Lifespan Developmental Neuroscience
Professur für Entwicklungspsychologie und Neurowissenschaft der Lebensspanne

TECHNISCHE
UNIVERSITÄT
DRESDEN

Paid Student assistants (SHK/WHK) wanted from September 2022:

[Fluent German is necessary for communicating with study participants.]

Longitudinal development of perception-action integration in Giles de la Tourette syndrome (GTS): in search for mechanisms underlying symptom remission

GTS is a neurodevelopmental disorder in which tics have been associated with hyper-binding in the neurophysiological correlates of perception-action integration (i.e., integration between perception and motor processes). Tic severity has been reported to peak in childhood and adolescence, followed by complete or partial remission of symptoms towards young adulthood. Although approximately 50% to 60% of GTS patients have complete symptoms remission or mild tics, these symptoms still persist or worsen in the remaining GTS patients. Therefore, we aim to understand the mechanisms underlying symptom remission/persistence by studying how the developmental trajectories of perception-action integration in GTS patients deviates from the healthy population.

In this study, particularly, we will collect data from healthy children and adolescents to understand the developmental trajectory of perception-action integration in the healthy population. To understand the underlying mechanisms of perception-action integration, we will record brain activity as measured by EEG while participants are asked to do a series of tasks.

By participating in this project, you will gain experience conducting clinical interviews to obtain neuropsychological data. You will also gain experience recording and pre-processing EEG data. There will also be an opportunity to do a Bachelor's or Master's thesis in this project.

Summary

Project timeline	: September 2022 - August 2025
Earliest start date	: September 2022
Workload	: 8h/week (negotiable)
Required Skill Level	: Bachelor's and Master's students
Responsibilities	: Recruitment, data collection, and data processing
Benefits	: 1) Conducting clinical interviews
	2) Collecting and pre-processing EEG data
Supervisor	: Dr. Kathleen Kang

Contact Information

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