UNIVERSITÄT SALZBURG
Psychologie

Talk on Tuesday, 24. Nov 2026
Start: 10:15 till 11.30 Uhr
in HS 424
The talk will be presented in English

Psy-Talks: From Functional Connectivity to Real-Life Human Behaviour

Prof. Dr. Ido Tavor

Tel Aviv University



While cognitive and socio-affective traits widely differ between individuals, sources of this inter-subject variability are largely unknown. In this talk, I will present a series of studies tracking the intricate relationship between functional connectivity and a variety of behavioral outcomes across diverse populations and longitudinal settings. Specifically, we followed undergraduate students before and after their first year of university studies, IDF soldiers across military service, and individuals undergoing multi-session learning interventions. Using functional connectivity features derived from movie-watching and resting-state fMRI, we constructed predictive models to examine the extent to which individual patterns of functional network organization could predict real-life cognitive and socio-affective outcomes.

Our findings demonstrate that functional connectivity can accurately predict a broad range of individual differences, including academic achievements, learning capabilities across auditory-motor and language domains, and decision-making performance, as well as the formation of future social ties and resilience to combat-induced stress. Together, these findings highlight the potential of functional network organization as a source of predictive and diagnostic insights into individual cognitive and socio-affective traits, extending beyond conventional laboratory measures to capture meaningful aspects of real-life human performance, social relations, and coping mechanisms.