



Workshop “EEG in Fieldtrip”

Dr. Tzvetan Popov, Universität Konstanz
8th to the 10th of November 2023

Day 1 – 8th of November

Session I

- 09:00 – 09:15 Registration and welcome
- 09:15 – 10:15 **Lecture**: Introduction to EEG and the FieldTrip Toolbox
- 10:15 – 10:30 Coffee break
- 10:30 – 12:30 **Hands-on**: Initiation to FieldTrip; Analyzing EEG data (event-related potentials)

Session II

- 12:30 – 13:30 Lunch
- 13:30 – 14:30 **Lecture**: Fundamentals of neuronal oscillations and synchrony

Day 2 – 9th of November

Session III

- 9:00 – 10:45 **Hands-on**: Time-frequency Analysis of Power
- 10:45 – 11:00 Coffee break
- 11:00 – 12:30 **Lecture**: Non-parametric permutation techniques
- 12:30 – 13:30 Lunch

Session IV

- 13:30 – 14:45 **Hands-On**: Statistical Analyses
- 14:45 – 15:00 Coffee break
- 15:00 – 16:30 **Hands-On**: Statistical Analyses- MVPA and decoding
- 16:30 – 17:00 Wrap-up-the-day and Summary

Day 3 – 10th of November

Session V

- 9:00 – 10:30 **Lecture**: Source reconstruction in FieldTrip
- 10:30 – 10:45 Coffee break
- 10:45 – 12:30 **Hands-on**: Source Reconstruction on oscillatory data (beamformer)
- 12:30 – 13:30 Lunch



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Session VI

- 13:30 – 15:30 *FieldTrip Playground* (bring your own data)
- 15:30 – 15:45 Coffee break
- 15:45 – 16:30 *FieldTrip Playground continued*
- 16:30 – 17:00 Wrap-up-the-day and Closing remarks