

R-Group Workshop  
“Analyzing Intensive Longitudinal Data”  
by Fridtjof Petersen

**Date, Time & Location:**

Day 1: 04.02.25; 13:00 - 17:00; AND-2-02 (Andreasstrasse 15, 8050 Zurich)

Day 2: 05.02.25: 09:00 - 13:00; AND-2-02 (Andreasstrasse 15, 8050 Zurich)

**Description**

This workshop introduces participants to the analysis of intensive longitudinal data (ILD) and time series in psychology using R. Intensive longitudinal data has become increasingly common and is often collected from experience sampling methods (ESM) or diary studies. Understanding how to analyse intensive longitudinal data properly is essential for researchers who want to gain more insight into individuals' experiences over time. Thus, the workshop will provide participants with a theoretical understanding and practical experience in applying ILD analysis techniques to real datasets.

Join the workshop to learn more about the following topics:

- **Data Preparation and Visualization:** Learn how to prepare your intensive longitudinal data for analysis and use visualisation techniques to understand important characteristics of your data.
- **Multilevel Modeling:** Learn how to account for the nested structure of ILD and distinguish between effects that vary between persons and effects that vary within persons.
- **Vector Autoregressive Models (VAR) + Networks:** Learn how to analyse multivariate time series and understand how variables influence one another dynamically. We will also look at how we can visualise VAR models as networks.
- **Joint Models for ILD (if time permits):** Learn how to make dynamic predictions for events based on person-specific dynamics arising from ILD data.

**Fridtjof Petersen** is a PhD student supervised by Laura Bringmann and Dimitris Rizopoulos at the University of Groningen, specialising in intensive longitudinal data, time series prediction and joint models.