Multilevel Analysis of Group and (Intensive) Longitudinal Data

# General Information

**Objectives**: Participants learn about the basic principles of multilevel analysis and how to perform this analysis (with a special focus on multilevel analysis of experience sampling data).

**Type of instruction**: Lectures and practical

**Course load**: 3 full days

**Lecturers**: Dr. Joran Jongerling and Dr. Leonie Vogelsmeier

**Contents**: Aim of the workshop is to provide an introduction to multilevel analysis on data of units at different levels (e.g., pupils nested within schools, employees nested within teams or organizations, patients nested within doctors, or observations nested in individuals [repeated measures]). Multilevel analysis will be amply illustrated using R, and participants get the opportunity to apply R to assignments and their own data as well.

**Instruction language**: English

**Compulsory reading**: We will use open-source material throughout the course, including publicly available e-books.

**Required prerequisites**: Sound knowledge of regression analysis

**Other remarks**: Bring your own laptop

# Course Schedule

Before Day 1, please read…

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| **Day 1** (02-06-2022) | |
| 09:00 - 09:30 | Introduction / Logistics |
| 09:30 - 11:00 | Lecture 1: |
| 11:00 - 12:30 | Exercise 1 |
| 12:30 - 13:30 | Lunch |
| 13:30 - 15:30 | Lecture 2: |
| 15:30 - 17:00 | Exercise 2 |
| **Day 2** (08-06-2022) | |
| 09:00 - 10:00 | Lecture 3: |
| 10:00 - 11:00 | Exercise 3 |
| 11:00 - 12:00 | Lecture 4: |
| 12:00 - 13:00 | Lunch |
| 13:00 - 14:00 | Exercise 4 |
| 14:00 - 15:00 | Lecture 5: |
| 15:00 - 16:00 | Exercise 5 |
| 16:00 - 17:00 | Lecture 6: |
| 17:00 - 18:00 | Exercise 6 |
| **Day 3** (09-06-2022) | |
| 09:00 - 10:00 | Lecture 7: |
| 10:00 - 11:00 | Exercise 7 |
| 11:00 - 12:00 | Lecture 8: |
| 12:00 - 13:00 | Lunch |
| 13:00 - 14:00 | Exercise 8 |
| 14:00 - 16:00 | Lecture 9: |

Note: Given the dynamics of a live and interactive course, this schedule is tentative. Also, while the starting time for each day is definite, the ending times can vary a bit (by ±30 minutes). Also, shorter breaks are not indicated in the schedule, but we will take them as needed.