# Introduction to Multilevel Analysis (S14)
## *06-08 July 2022*

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*Lecturer: Dr. Mirjam Moerbeek*

| Day | Time | Type | Description | Location |
|-----|------|------|-------------|----------|
| **Wednesday** | 09:30 - 12:30 | Lecture | Introduction<br>- When and why multilevel analysis<br>- Course goals<br>- Overview of course<br><br>- The basic two-level regression model<br>- Multilevel-analysis using different software: | **Ruppert building**, **room 002** |
| | 12:30 - 13:30 | Lunch | In Educatorium | |
| | 13:30 - 16:30 | Computer Lab | Data analyses in HLM, Mplus and R | |

| Day | Time | Type | Description | Location |
|-----|------|------|-------------|----------|
| **Thursday** | 09:30 - 12:30 | Lecture | Statistical and methodological issues<br>- Analysis strategy<br>- Intraclass correlation coefficient<br>- Explained variance<br>- Standardized coefficients<br>- Assumptions<br><br>- Categorical variables<br>- Three level model<br>- Centering of variables | **Ruppert building**, **room 002** |
| | 12:30 - 13:30 | Lunch | In Educatorium | |
| | 13:30 - 16:30 | Computer lab | Data analyses in HLM, Mplus and R | |

| | | | Longitudinal data | Ruppert building, room 002 |
|---|---|---|---|---|
| **Friday** | 09:30 - 12:30 | Lecture | - MANOVA approach<br>- ML-longitudinal approach<br>- Fixed measurement occasions<br>- Varying measurement occasions | |
| | 12:30 - 13:30 | Lunch | In Educatorium | |
| | 13:30 - 16:30 | Computer lab | Data analyses in HLM, Mplus and R | |