



## Introduction to Multilevel Analysis (S14)

16-18 July 2025

Course Director: Dr. Mirjam Moerbeek

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Lecturer: Dr. Mirjam Moerbeek

| Day       | Time                | Type         | Description                                                                                                                                                                           | Location                                        |
|-----------|---------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Wednesday | 09:30<br>-<br>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>- An example with two levels of nesting | <a href="#">Minnaert building,</a><br>room 0.13 |
|           | 12:30<br>-<br>13:30 | Lunch        | In <a href="#">Vening Meinesz building A</a>                                                                                                                                          |                                                 |
|           | 13:30<br>-<br>16:30 | Computer Lab | Data analyses in R                                                                                                                                                                    |                                                 |

|          |                     |              |                                                                                                                                                                                                                                                                |                                                 |
|----------|---------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Thursday | 09:30<br>-<br>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 | <a href="#">Minnaert building,</a><br>room 0.13 |
|          | 12:30<br>-<br>13:30 | Lunch        | In <a href="#">Vening Meinesz building A</a>                                                                                                                                                                                                                   |                                                 |
|          | 13:30<br>-<br>16:30 | Computer lab | Data analyses in R                                                                                                                                                                                                                                             |                                                 |



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| Day    | Time                | Type         | Description                                                                                                         | Location                                        |
|--------|---------------------|--------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Friday | 09:30<br>-<br>12:30 | Lecture      | Longitudinal data<br>- ML-longitudinal approach<br>- Fixed measurement occasions<br>- Varying measurement occasions | <a href="#">Minnaert building,</a><br>room 0.13 |
|        | 12:30<br>-<br>13:30 | Lunch        | In <a href="#">Vening Meinesz building A</a>                                                                        |                                                 |
|        | 13:30<br>-<br>16:30 | Computer lab | Data analyses in R                                                                                                  |                                                 |