

## **Multi-Level Modelling of Learning Gain and Performance Level in Pre- and Post-test Designs**

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### **Goals & Topics of the PDC**

In this course we will focus on modelling data from pre- and posttest measurements in a multilevel framework. The advantage of this is that one can model at once two separate parameters, and the effect of possible variables on them: learning gain (also known as difference scores) and performance level (score in the posttest). We will focus on how these models can be set up in MlwiN and how to interpret the results.

### **Prior experience or knowledge the participants should have**

Participants should be familiar with regression analysis and prior knowledge on multilevel modelling is advised. During this session you get a quick and dirty introduction on the MlwiN software package.