JUSTUS-LIEBIG-UNIVERSITÄT GIESSEN

GGS Gießener Graduiertenzentrum Sozial-, Wirtschafts- und Rechtswissenschaften

Workshop

Multilevel Modelling

Organizational Details

Instructor:	Prof Dr Elmar Schlüter
Live-Meetings:	19. & 20.3.2026, 9.15 am – 4.45 pm each day
Location:	Room 001, Licher Str. 68, 35394 Giessen
ECTS:	3 ECTS
Participants:	15

Objectives

The primary objective of this course is to provide participants with a proper understanding and the practical skills necessary for applying linear regression modelling techniques to hierarchically ordered multilevel data structures. Core topics of the course include random intercept & slope models, contextual effect models, cross-level interaction models, and further topics. In order to put these different techniques to practice, participants will become proficient in the use of e.g. the SPSS and/or Mplus statistical software. Throughout the course, emphasis lies on ways of achieving an adequate balance between theoretical assumptions, methods of data analysis, and interpretation of the results. To facilitate the transfer of theoretical knowledge into participants' own research, a large part of the course will be devoted to systematic exercises using freely available survey data. Participants are encouraged, however, to also use their own data.

Content

The workshop will deal with topics such as:

- Conceptual and statistical foundations of hierarchical linear models
- Intercept-and-Slope-as-Outcome-models, Contextual effect models

Programme

Day 1

Module 1	Introduction; examples of multilevel-data structures; when (& when not) to use multilevel models
Module 2	Random Intercept- und Intercept-as-Outcome models
Module 3	Exercise: How to run Intercept-as-Outcome models for hierarchical Two-level-Data
Module 4	Slope-as-Outcome models
Module 5	Exercise: How to run Slope-as-Outcome Models

Day 2

Module 6	Multilevel data structures for panel data
Module 7	Exercise: Intercept-and-Slope-as-Outcome models for panel data
Module 8	Contextual effect models
Module 9	Exercise: How to run Contextual effect models
Module 10	Question & answers, opportunity to discuss individual models

Target Group

This course is designed for application-oriented participants who are familiar with the basics of multivariate data analysis (e.g. conducting and interpreting a multivariate regression analysis) and would now like to expand their scope.

Course Language

English (German, if only German-speaking participants)
Please note: Proficiency in English at the C1 level of competency is recommended.

To gain the ECTS credit points participants have to:

Complete on-site exercises & submit a written report based on an exemplary multilevel regression analysis.

About the lecturer

Elmar Schlueter is professor of sociology at JLU Giessen and obtained his PhD as a fellow of the DFG research training school 'group-focused enmity'. His research focuses on cross-national and/or longitudinal analyses, often using multilevel and structural equation modelling for systematic theory testing. See his published research here https://t1p.de/shiny-publications-ElmarSchlueter.

Registration

If you would like to participate in this workshop, please register **by March 9, 2026,** via e-mail at info@ggs.uni-giessen.de.