

Workshop

Multilevel Modelling Using Stata

Organizational details

Instructor: *Dr. George Leckie, University of Bristol*
Date: May 15, 2014, 09:00 - 18:00 and May 16, 2014, 09:00 - 13:00
Location: Room 601 (basement), Licher Str. 66, 35394 Giessen
ECTS: –

Aims

On completion of this course, participants should be able to apply multilevel models to their own data using Stata.

Course Contents

This course provides an introduction to multilevel modelling for continuous response data (continuous dependent or outcome variables) using the Stata statistical software package.

A selection of the following topics will be covered:

- (1) Overview of multilevel modelling: multilevel data structures, typical multilevel research questions, problems with standard analyses, ...
- (2) Variance-components models: testing for group effects, VPC and ICC statistics, predicting group effects, shrinkage, ...
- (3) Random-intercept models: fixed versus random effects, contextual effects, ...
- (4) Random-slope models: cross-level interactions, variance functions, ...
- (5) Growth-curve models: centring time, autocorrelated residual errors, ...
- (6) Three-level models:
- (7) Multilevel modelling resources: useful web sites, online course, software, discussion boards, email lists, books, ...

Each new methodological development will be illustrated with applications to social science data sets. The course will consist of an approximately 50:50 mix of lectures and computer practicals using Stata.

It is mandatory to read the paper that is provided as a download on Stud.IP before the course.

Target group

Doctoral candidates and postdoctoral researchers at GGS

Course language

English

Registration

By April 1, 2014 via Stud.IP: https://studip.uni-giessen.de/studip/details.php?sem_id=76b5da0ad3c9c79f265b5663b820b96f&again=yes