BAMBERG
GRADUATE SCHOOL
OF SOCIAL SCIENCES

Applied Panel Data Analysis

Instructor:	Prof. Dr. Michael Gebel
Time:	Weekly, Wednesday 10:15 – 11:45
Place:	Computing Centre, Feldkirchenstr. 21, RZ/00.06
Registration:	Please send a mail to Miriam Schneider (miriam.schneider@uni-bamberg.de) to register.

Prerequisites

Participants are expected to be familiar with multiple linear and binary logistic regression analysis. Students are also required to be familiar with the statistics package Stata. These skills could either be acquired or refreshed in self-studies or by attending an additional compact tutorial course (teaching in German) at the beginning of the winter term. If you like to participate in the compact tutorial course, please register via the virtual campus (VC). https://vc.uni-bamberg.de/moodle/enrol/index.php?id=20354. For BAGSS-students, the workshop "Stata I" will be offered in English language in November 2016.

More information about the course and registration guidelines will only be provided during the first seminar session.

Description

Learning targets: The central aim of this course is to empower participants to critically discuss basic concepts and assumptions of linear and binary logistic fixed effect and random effect panel data analyses, to conduct theory-driven empirical research, to choose and specify the appropriate regression models according to the ideas of modern causal analysis, to independently carry out linear and binary logistic fixed effect and random effect panel data analyses using the statistics package Stata, to correctly interpret the results and clearly present the results of regression analyses in tables and graphs.

Course contents: In general, the course quickly repeats the logic of the longitudinal research design and introduces the foundations of applied panel data analyses. Specifically, linear fixed

effect and random effect models and binary logistic fixed effect and random effect models are presented and discussed. In lab sessions participants will learn how to practically implement panel data analyses using the statistics package Stata. The lab sessions and the seminar theses will draw exclusively on topical sociological questions of life course research (consequences of life course events) and data of the Socio-Economic Panel (SOEP). Specifically, the course offers an applied introduction and hands-on experience in the complex preparation of panel data for the statistical analyses during the lab sessions.