Advanced Regression Analysis Using Stata

Instructor:	Prof. Dr. Michael Gebel
Time:	Weekly, Wednesday 08:15 – 09:45
Place:	Computing Centre, Feldkirchenstr. 21, RZ/00.05
Registration:	Please send a mail to Miriam Schneider (miriam.schneider@uni-bamberg.de) to register.

Prerequisites

Students are 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.

Description

Learning targets: The central aim of this course is to empower participants to critically discuss basic concepts and assumptions of linear and logistic regression 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 multiple linear regression and binary logistic, ordinal logistic and multinominal logistic regression 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 foundations of multiple regression analysis and focuses on advanced topics of multiple regression analysis. The course content is structured around four key topics of cross-sectional data analyses using parametric regression techniques: multiple linear regression, binary logistic regression, ordinal logistic regression and multinomial logistic regression. In lab sessions participants will learn how to practically implement regression analyses using the statistics package Stata. The lab sessions and the seminar theses will draw on topical sociological questions and data of the ALLBUS (the German Social Survey).