

Panel Data Analysis Using Stata

(Module number BA-WW-WPA, D-WW-WPA)

Summer term 2025

Brief description

As part of the course, students learn the basics of empirical scientific work. This includes both academic writing (e.g., structure of academic texts, correct citation methods, risks and potentials of technical aids such as ChatGPT) and practical aspects of empirical research. In addition to formulating empirical questions, they also learn how to use the statistical software **Stata**. Students learn the basics of (panel) data processing and the application of initial descriptive analysis methods in several coding sessions. The Socio-Economic Panel (SOEP) serves as the data basis. The course language is German.

Dates

- Theory: 11:10-16:20 in room HÜL-S-389/390
- PC exercise: 9:20-16:20 in SCH-B-247/248
- Submission: until June 07, 2025, 11:59 p.m.

In the last session, students choose between different topics for a joint seminar paper (10-15 pages, submission: June 07, 2024), which is worked on in small groups. After three weeks of work, students can submit an exposé to receive feedback. The final paper is submitted as a PDF by e-mail to the course instructor. In addition, an identical print version must be submitted to the chair's mailbox.

Crediting and registration

The course is a compulsory elective module of the Bachelor's degree programs in Business Administration and Economics and Business Education, as well as the main course of the Diploma programs in Business Information Systems and Industrial Engineering.

WPA courses are assigned centrally by the faculty. The students assigned to the course are added to the OPAL course. Enrollment in HISQIS must be done independently.

Prerequisites

Basic knowledge of statistics. Knowledge of English (at least B1 level) is an advantage

Lecturer

Andreas Leibing (andreas.leibing@tu-dresden.de), office hours by appointment

Service to be provided

Seminar paper (100% of the final grade)

Recommended introductory literature

Acock, A. C. (2023). *A Gentle Introduction to Stata, Revised Sixth Edition*. Stata Press.

Goebel, J., Grabka, M. M., Liebig, S., Kroh, M., Richter, D., Schröder, C., & Schupp, J. (2019). The German socio-economic panel (SOEP). *Yearbooks of Economics and Statistics*, 239(2), 345-360.

Kornmeier, M. (2007). *Wissenschaftstheorie und wissenschaftliches Arbeiten: eine Einführung für Wirtschaftswissenschaftler*. Springer-Verlag.