

Master-Module Panel and Evaluation Methods (5 ECTS)

for Master of Science in Economics: Panel and Evaluation Methods (Econometrics 4)
for Master Sozialökonomie: Panel and Evaluation Methods (Ökonometrie 4)
for Master Arbeitsmarkt und Personal: Quantitative Methoden 2
for Master Marketing: Statistik III – Panel and Evaluation Methods
for Master FACT: Ökonometrie 4

The module is taught in a blocked format in the second half of the semester. We offer two independent exercise courses.

Lecture: Mo. & Wed. 8:00-9:30 LG 0.142 (Mo) LG 0.424 (Wed) Start: 09.12.2019
Exercise: Wed. 9:45-11:15, LG 0.143 (class) o. LG 0.421 (PC lab) Start: 11.12.2019
Office hours: Jun.-Prof. Dr. Markus Nagler, Ph.D. Mo. 14.00 -15.00 and by appointment
Dr. Kamila Cygan-Rehm Mo. 14.00 -15.00 and by appointment

The course offers advanced econometric methods building on the econometrics course in the first half of the semester. We start out with instrumental variables estimation and the GMM approach to solve endogeneity problems. After that we turn to static and dynamic panel data methods. We then cover modern empirical approaches of program evaluation and causal effects estimation which are applied in numerous fields. The course finishes off with a short introduction into quantile regression estimation.

Content	1	Introduction
	2	Endogeneity, Instrumental Variables and GMM
	3	Linear Models for Panel Data
	4	Evaluation Methods
	5	Quantile Regression

Exam and credits

The course is completed by passing an exam (60 minutes). It is possible to hand in a written empirical homework which can be prepared in groups of up to three students. The grade of the homework counts for up to 20 percent of the grade in the winter semester if the exam is passed. It does not count for the grade in later semesters. Registration for the homework is open until 16.12.2019 using StudOn. Topics are handed out starting 18.12.2019. The deadline for handing in the homework is 17.02.2020 at noon.

Literature and Readings

The lecture uses slides that are available on studon. The German language version of the 2017/18 lecture is available on studon. The lecture is partly based on Verbeek, Marno (2012), A Guide to Modern Econometrics, 4. Ed., John Wiley Publishers (chapters 5 and 10). In addition, we offer a course pack with reading material through STS.

Recommended tests:

- Greene, William H., 2012, Econometric Analysis, 7. ed., Prentice Hall, New Jersey
- Gujarati, Damodar N., 2003, Basic Econometrics, 4. e., McGraw Hill, New York
- Wooldridge, Jeffrey M., 2010, Econometric Analysis of Cross Section and Panel Data, 2. ed. MIT Press, Cambridge/Mass., London
- Cameron, C.A. and P.K. Trivedi, 2005, Microeconometrics. Methods and Applications, Cambridge University Press
- Angrist, Joshua and Jörn-Steffen Pischke, 2009, Mostly Harmless Econometrics, Princeton University Press, Princeton and Oxford.