



## Applied Economics of Education

Summer 2020

### Tutorial: Stata – Advanced Course

Lehrstuhl für VWL, insb.  
Empirische Mikroökonomik

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**Stata - Tutorial:** Wed., 12:00 - 14:00, RZ/00.06; PC-Pool Start: April 22, 2020

**Participants:** Students of the “Applied Economics of Education” course and, if capacity is available, students of other programs (Bachelor and Master).

**Course Language:** English

**Requirements:** “Empirische Mikroökonomik” (BAEES4.5)

#### Brief description

The statistics software Stata is one of the most widely used software in economics and social sciences. The course offers students the possibility to learn about this software at an advanced level.

The course is open to participants of the “Applied Economics of Education” course and, if capacity is available, to students of other programs (Bachelor and Master). In general, the course is relevant for those students who aim to write a term paper of applied economics or who want to write an empirical BA or MA thesis in the field of labor, education or population economics.

In detail, this course will cover:

- A Stata “Crash Course” for beginners
- Implementation of methods of causal inference using Stata, including:
  - Panel data techniques
  - Instrumental-Variable (IV) approach
  - Regression-Discontinuity (RD) approach
  - Differences-In-Differences (DID) approach
- Replication of published empirical papers

Previous experience with Stata is not mandatory, but is highly recommended. The course will start with a “Crash Course” for beginners, which will briefly present the material covered in the “Introduction to Stata (WS 19/20)” course. Therefore, students with no previous experience are encouraged and asked to take own initiative in filling potential gaps.

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Throughout the course, students will be familiarized with the difference of correlative and causal evidence. When implementing the methods of causal inference using Stata, a short and intuitive presentation of the respective method will be given. However, students are encouraged to take own initiative for a deeper understanding of the techniques; e.g. with further materials and readings, which will be provided in class.

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**Software:** Free Stata licenses are offered via campus or in PC-Pools.

**Main material and readings:**

Cameron, A. C., & Trivedi, P. K. (2010). Microeconometrics using Stata, revised edition. StataCorp LP.

VC Course “Introduction to Stata (WS19/20)”