

Lecture

Quantitative Methods for Causal Inference

General Information

<u>Lecturers:</u>	Prof. Dr. Johannes Jaspersen (email: jaspersen@lmu.de)
<u>Time and Location:</u>	07.01.2027 – 04.02.2027 and individual appointments
<u>Credits:</u>	MBR course (A/I module), counts as 2 contact hours. Grades will be based on an exam.
<u>Requirements:</u>	Students must have participated in the course Quantitative Methods before participating in QMCI.

Course Description

The course will provide PhD students with a comprehensive understanding of contemporary causal inference techniques. Focusing on the analysis of experimental and quasi-experimental methods such as Randomized Control Trials, Instrumental Variable Regression, Difference-in-Differences and Regression Discontinuity Designs. The course will emphasize both theoretical foundations and practical applications. It aims to enhance students' ability to conduct robust causal analysis in their research.

Assignment / Grading

Students are expected to actively participate in the discussions. The class will be graded based on an 1h-exam on February 4th, 2027.

Schedule

The class sessions will be on the dates listed below. Room 314 is located on the third floor of Schackstr. 4, 80539 Munich. Classes are carried out in person. Attendance to all scheduled meetings of the course is mandatory. The final schedule for presentations will be announced in class.

Date	Time	Place	Content
07.01.2027	10:00 – 15:00	Schackstr. 4, 314	The necessity of exogenous variation
08.01.2027	10:00 – 15:00	Schackstr. 4, 314	RCTs; IV
11.01.2027	10:00 – 15:00	Schackstr. 4, 314	IV: DiD
12.01.2027	10:00 – 15:00	Schackstr. 4, 314	DiD; RDD
04.02.2027	14:00 – 16:00	Schackstr. 4, 314	Exam

Further Information

- The course is held in English.
- Attendance to all lectures of the course is mandatory.
- The number of participants is limited to 20.
- Suggested readings for the course and a list of relevant literature will be given in class and included in the lecture slides.