Syllabus

Name:

Policy Evaluation Methods

Responsible:

Professor Fabian Kosse, Chair of Data Science in Business & Economics

Program:	Type:	Term:	ECTS:
Master	Lecture	Summer	5 CP

Contents & Objectives:

This course offers an introduction to the fundamentals of causal inference and to widely used research designs in the social sciences. After the course, students should be able to understand the basic concepts and methods of causal inference; should be able to read and interpret research and judge its credibility. This course furthermore serves as a basis for subsequent master courses on statical inference and data science applications

Methods:
Repetition of statistical foundations
Simple Linear Regression (OLS + Assumptions)
Multiple Regression (Multicollinearity, OVB, Categorial Variables, Interaction Terms)
Causal analysis (experiments, DiD, IV)

Topics (case based)
Competition among firms, internet advertising
Productivity, banking crisis, trade, growth,
Taxes & investments
… and many more

Prerequisites:

Students that attend this course should have some basic knowledge in statistics and econometrics.

Course Structure:

Week	Content
1-2	Repetition of statistical foundations
3-4	Simple Linear Regression (OLS + Assumptions)
5-6	Multiple Regression (Multicollinearity, OVB, Categorial Variables, Interaction Terms)
6-12	Causal analysis (experiments, DiD, IV)

Literature:

Lecture Notes will be provided every week.

Grading:

There will be a 60 min graded exam at the end of the semester.

Contact:

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