

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

VOLKSWIRTSCHAFTLICHE FAKULTÄT DEPARTMENT OF ECONOMICS



Seminar on Treatment Effects: Estimation and Inference

Tomasz Olma and Vincent Starck LS (Seminar)

Sommersemester/summer semester 2026

Treatment effects are the central object of interest in the econometrics of program evaluation. In this seminar, we will cover a series of recent developments in the theory and practice of estimation and inference on treatment effects based on experimental as well as observational data. We will focus on two main blocks.

- 1. Nonparametric methods for regression discontinuity and kink designs. We will discuss the challenges related to inference in the presence of a smoothing bias and the solutions relying on the so-called robust bias corrections and bias-aware inference. We will also cover selected extensions of the standard designs, such as covariate adjustments, testing for manipulation, partial identification with a manipulated running variable, and geographic RD designs.
- 2. Models with latent variables. Latent variable models arise frequently in econometrics due to unobserved components, measurement errors, or hidden steps and often lead to identification issues and challenges to estimation. We will discuss approaches to identification using further restrictions or auxiliary information, estimation of parameters, or derivation of robust estimates in such frameworks.

Studiengang:	MSc
Program:	
Termin Vorbesprechung (tt.mm.jjjj):	April 2026, Registration will be in March
Date of preliminary meeting (dd.mm.yyyy):	2026 via LSF (01.03 - 21.03.2026).
*Bearbeitungszeitraum für die Hausarbeit:	Until August 2026
*Working period for term paper:	
*Seminartermin:	July 2026
*Seminar date:	
Veranstaltungsort:	Institut für Statistik
Venue:	Ludwigstr. 33
falls außerhalb: Kostenschätzung:	€
if out of Munich: estimated costs:	
Sprache:	English
Language:	
Empfohlene Vorkenntnisse:	Causal Inference (Wilhelm)
Recommended courses:	Econometric Theory (Olivares)
Methodischer Schwerpunkt:	Intermediate Econometrics and
Methodological background:	Probability & Statistics at advanced
	undergraduate level.
*Grundlagenliteratur:	
*Basic references:	
*Kontakt:	Vincent Starck (v.starck@lmu.de)
Contact:	Tomasz Olma (t.olma@lmu.de)

^{*} Optional (falls schon bekannt) / optionally (if already known)