

Applied Microeconometrics and Causal Inference, 5hp

Venue: Department of Economics, Karlstad University (House 11)

Dates: 13-14 November & 8-9 December 2014

Course Instructor: Andreas Kotsadam, PhD, University of Oslo. Homepage:
<http://andreaskotsadam.wordpress.com/>

Registration: Register by sending an e-mail to mikael.svensson@kau.se. Registration deadline October 1st 2014.

Course fee: PhD students at the Swegpec network attend the course free of charge. Travel and accommodation is also reimbursed by the Swegpec fund. Researchers and PhD students from universities outside the network can attend if available slots (travels and accommodation is not reimbursed).

Aim: The course is aimed at PhD students and researchers in economics or social sciences in large. Prior knowledge of statistics and regression analysis will be assumed. The computer labs will be carried out using the Stata software, for which basic familiarity will be assumed. Participants need to bring their own laptops with Stata installed.

Day 1: Thursday 13 November

10.00 – 13.00 Introduction, potential outcomes and randomization. The nuts and bolts of doing a randomized experiment: Pitfalls, power calculations, clustered designs, ethical discussion, practical tips.

14.15 - 17.00 Instrumental variables (IV)

Day 2: Friday 14 November

8.15 - 11.00 Regression discontinuity (RD)

12.15 - 15.00 *Lab session: IV and RD approaches*

Between Day 2 & 3:	Home assignments working with 3 Referee reports to be handed in before day 3 in addition to a preparation of a research proposal presentation.
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Day 3: Monday 8 December

10.15 – 13.00 Panel data, difference in differences, matching, and synthetic control groups

14.15 – 17.00 *Lab session: Difference in Differences and Synthetic Control*

Day 4: Tuesday 9 December

8.15 – 11.00 Lecture based on the research interests of the participants: Peer effects /spatial econometrics/The epidemiological approach/or some other topic of interest.

12.15 – 15.00 Discussion and presentation of research proposals