

Sant'Anna School of Advanced Studies
Applied Microeconometrics - Fall 2016

Instructor: Manuel Bagues (Aalto University). E-mail: manuel.bagues@aalto.fi

Schedule: June 20-24, 10:00 - 13:30.

Course Objectives: The course introduces PhD students to the main empirical strategies for causal inference. It has a practical flavor $\Rightarrow$ emphasis is not on proofs but on intuitions and on applications. I will presume that you already know basic Econometrics and Statistics.

Course material: Slides and suggested readings will be available at my webpage. The following book is also highly recommended:

- Angrist, J. and J.S. Pischke (2009), *Mostly Harmless Econometrics*, Princeton University Press.

Software requirements: I recommend you to use STATA for exercises and take-home assignments, but you can also use other packages such as R.

Grade Policy: Final exam (50 per cent), replication exercise/project proposal (30 per cent) and assignments (20 per cent). Participation in class is highly encouraged.

Extra Help: Do not hesitate to come to my office during office hours or by appointment to discuss a problem set or any aspect of the course.

Course Outline:

1. Introduction
2. Randomized Control Trials
3. Instrumental variables
4. Identification based on observables
5. Differences-in-differences
6. Regression discontinuity designs
7. Non-standard standard error issues
8. Introduction to Structural analysis

Expected Schedule:

June 20	Chapters 1 & 2
June 21	Chapter 3
June 22	Chapters 4 & 5
June 23	Chapter 6
June 24	Chapters 7 & 8

Other important dates:

Final exam	TBA
Replication exercise/Project proposal	TBA