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Nikos Benos, Associate Professor, University of Ioannina
Nikolaos Mylonidis, Associate Professor, University of Ioannina



Department of Economics
University of Ioannina



*4th Summer School
in Advanced Economics*

*8 to 12 July 2019
at Syros Island Greece*

*"Econometric Methods to
Estimate Causal Effects"*

The Distinguished Guest Professor will be **Sascha O. Becker**,
Professor of Economics at Warwick University-UK



Economists are increasingly seeking to estimate the causal effects of economic policies, programs and reforms. Many methods have been developed over the recent years (Instrumental Variables, Differences-in-Differences, Regression Discontinuity etc.). This course introduces a set of econometric tools and research designs, and complements the theoretical discussion with lab session which empirically apply all methods. The course topics are especially useful for evaluating natural experiments — situations in which comparable groups of people are exposed or not exposed to conditions determined by "nature" (not by a researcher), as occurs with a government policy

At the end of this course the participants will be able to:

- Identify cases of natural experiments
- Understand the underlying assumptions of each method
- Draw causal inference from the data
- Apply all methods using modern econometric packages

Basic Outline

The course will be based on instruction, over a week. Each day there will be instruction on the main methods that we will cover for a total of 15 hours of instruction. There will also be additional 15 hours of hands on empirical applications of the methods covered using data that will be provided by the instructor.

The main headings of the topics that will be covered are as follows:

- Instrumental Variables Estimator
- Difference-in-differences
- Propensity Score Matching
- Regression Discontinuity Design
- Synthetic Control Groups
- Basic Machine Learning
- Bounding

There is a fee of 350€ that covers:

- The teaching material (lecture notes)
- All coffee breaks
- All lunch breaks (one each day)
- Farewell Dinner
- Certificate of Participation

Certificate & ECTS Credits

Students participating and successfully completing the Summer School can earn 4 ECTS Credits. A certificate of attendance will be issued at the end of the Summer School stating the ECTS credits earned. Participants should check with their own European Institutions whether these ECTS credits are transferable.

Important Dates :

Application opening: *October 15, 2018*

Application deadline: *April 29, 2019*

Early Notification of Acceptance: *January 14, 2019*

Final Notification of Acceptance: *May 6, 2019*

Deadline for early payment of fees: *April 16, 2019*