Design and Data Analysis for Experiments, Winter Term 2011/2012

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Thursday, 3/11/11, Friday, 4/11/11, Thursday, 1/12/11, Friday, 2/12/11
9:00 to 12:00 and 13:30 to 17:30
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Overview

In recent time, also in economics, experiments have increasingly been used. Econometrically, they have important advantages compared to non experimental data sets. They allow controlling the parameters of the situation, which reduces uncontrolled variance. Most importantly, exogenous treatment variations allow drawing causal conclusions. Nevertheless, there are also econometrical problems typical for experimental data. Data sets are small, variables are often discrete and the interaction in a typical experiment creates dependencies in the data. In this course, I will give an introduction to the experimental method and discuss the econometrical problem typical in the analysis of economic experiments.

Content

Experience experiments
Non-parametric tests
Applications to different experiment types
Experimental method – advantages and limits of experiments
Experimental design
Quantal Response Equilibrium
Regressions for experimental data
Case study: measuring social interaction
Testing theories
Heterogeneity
Practical questions: Data collection and organization

Literature