

Workshop

Theory and Analysis of Conditional and Average Causal Effects

Prof. Dr. Rolf Steyer (University of Jena, Germany)

March 1st 2018

Humboldt Universität zu Berlin

09:00 – 09:15	Welcome – Opening of the Workshop
09:15 – 10:45	Session I Theory and analysis of conditional and average causal effects
10:45 – 11:15	Coffee break
11:15 – 12.45	Session II Theory and analysis of conditional and average causal effects
12:45 – 13.45	Closing of the Workshop and joint lunch (optional)

Course description:

This short course is an introduction to the stochastic theory of causality, which is a generalization of the theory of causal effects in the tradition of J. Neyman and D. B. Rubin. In the course I will present the stochastic theory of causal effects and show how to use EffectLiteR for the analysis of conditional and average total effects.

Contents:

- Motivation: Simpson's paradox, non-orthogonal ANOVA
- The scope of the theory: random experiments
- The mathematical structure of causal models: causality space
- True outcome variables, average and conditional causal effects
- Prima facie effects
- Sufficient conditions for unbiasedness
- The role of randomization and other design techniques and strategies of data analysis
- Estimating and testing average and conditional total effects via structural equation modeling (Applications using EffectLiteR) in some empirical examples

Date: March, 1st 2018, 9am

Location: Department of Psychology at Humboldt Universität zu Berlin
Rudower Chaussee 18, 12489 Berlin
Room 3'208

Organization: Chair for Psychological Research Methods, Manuel Voelkle & Christian Gische

Admission: Please write an email to Christian Gische for admission (christian.gische@hu-berlin.de). Participation is free of charge.

We look forward to your participation!