

Seminar

Experimental Methods

Organizational details

Instructor:	<i>Prof. John Antonakis, University of Lausanne</i>
Date:	January 22, 2015, from 10:00 to 18:00 and January 23, 2015, from 10:00 to 14:00
Location:	Room 601 (basement), Licher Str. 66, 35394 Giessen
ECTS:	3 ECTS
No of participants:	Maximum 12

Goals

The goal of this course is to become familiar with experimental research techniques (lab and field experiments). Specifically, we will discuss various experimental designs, how to manipulate independent variables and measure dependent variables, how to control for the influence of extraneous variables, and how to eliminate alternative hypotheses. Further, we will touch on methods to statistically analyze data obtained from experimental research. Moreover, participants will receive feedback on presentations of their experimental projects.

Content

The content of the course will focus on the different phases of conducting an experimental study. First, an overview of experimental methods will be given and how it is useful to test causal claims. Next, using studies of the instructor, we will discuss how the author team came up with the research idea. For each of the studies, we discuss how they were designed and how the constructs were operationalized. Next, we will briefly discuss how issues regarding analyzing the results, with a particular focus on mediation (where the mediator has not been manipulated). Finally, we discuss about the interpretation of the results of an experiment and design a set of follow-up studies.

On Day 2 time-slots will be available to present and discuss participants` projects. Participants present the design of an experiment. The length (of time) of the presentation will depend on the number of participants in the course and will be communicated by the organizers a couple of weeks before the seminar will take place.

Please note:

If you want to present your experimental design, please inform Dr. Eva-Maria Aulich via email at eva-maria.aulich@ggs.uni-giessen.de by **January 15, 2015**. Please note that presenting an experimental design is part of your tasks to achieve ECTS-points.

About the lecturer

John Antonakis is Professor at the University of Lausanne. His research interests cover the areas of leadership and power, individual differences, social cognition, psychometrics, and research methods research. Prof. Antonakis has published in leading organizational behavior, psychology and management journals, such as *Science*, *Academy of Management Journal*, *Journal of Management*, *The Leadership Quarterly*, *Psychological Science*, *Organizational Research Methods* and *Personality and Individual Differences*, among other journal. He is also Associate Editor of *The Leadership Quarterly* and *Organizational Research Methods*.

Target group

Doctoral candidates and postdoctoral researchers at GGS

Course language

English

To gain the ECTS Credit points you have to:

- present your own experimental research project or ideas for an experimental research project
- actively participate in the seminar and exercises

Registration

Please register via e-mail at info@ggs.uni-giessen.de by **15.12.2014**.