

Kolloquium des Instituts für Soziologie im Sommersemester 2022

Mittwoch, 29.06.2022, 10 – 11.30 Uhr, Bürogebäude Falkenbrunnen, Raum 236,
Chemnitzer Str. 46a, 01187 Dresden

“Introduction to Data Simulation: How to Carry Out Simulation Studies Using the Latent Variable Modeling Framework and Software Mplus”

(Prof. Tenko Raykov (Michigan State University, Measurement and Quantitative Methods, www.msu.edu/~raykov)

This 1.5-hour workshop provides guidance to its attendees on the topic of data simulation using the latent variable modeling (LVM) framework and in particular the software Mplus. After a brief introduction to the field of data simulation, that following either of two main classes of popular structural equation models is discussed, path-analysis (general linear) models and confirmatory factor analysis models which are of particular relevance in social and behavioral measurement related research. Mplus input and output files are presented and discussed in detail, including those that can be employed to fit mis-specified models to simulated data and study their behavior across many independent replications. The participants will leave the workshop with practical skills needed for simulation data in their own research, specifically using either of these two model classes, as well as outside them following the data simulation principles underlying this workshop as well as those of importance when using Mplus for simulation purposes.