

Thema / Topic	Modern Data Analysis for non-Experimental Designs: Propensity Scores and R
Referent / Trainer	Dr. Ulf Kröhne
Sprache / Language	English
Datum / Date	16.12.2011, 09.00 – 17.00 Uhr
Ort / Location	MMZ II, SR1225
Inhalt / Content	<p>When randomized experiments can't be conducted, e.g. due to ethical reasons, the analysis of observational data is the only feasible approach for causal inference. Propensity scores have become popular to adjust for potential confounding in non-experimental designs.</p> <p>Propensity score matching, sub-classification and weighting are grounded on strong theories about causal inference. However, when it comes to application, it boils down to two central assumptions: The completeness of the considered covariates and the specified functional form of a regression model.</p> <p>We will focus on applications and give an introduction of various methods. All approaches are available as packages for R. Illustrated with real-data examples, the necessary steps for the estimation of adjusted treatments effects will become obvious and similarities as well as differences between the methods can be discussed.</p>