



**Universität
Zürich**^{UZH}

Mittelbaukolloquium des Psychologischen Instituts
Leitung: Dr. Michel Druey und Dr. Pamela Rackow

FS 2013

Datum: 23.10.2013

Ort: Binzmühlestrasse 14, Raum BIN 3.D.27

Uhrzeit: 12.30 –13.30Uhr

Titel: Analyzing interaction and nonlinear effects: Challenges, choices, empirical examples

Referent: Christina Werner

Abstract:

Psychological theories often assume interaction or nonlinear effects, such as stressor-resource models in occupational stress. My talk gives a methodological introduction to analyzing interaction and nonlinear effects from an applied psychological perspective. I outline some of the challenges involved in analyzing interactions and nonlinear relationships in quantitative data, and introduce available statistical choices, in particular advanced structural equation modeling (SEM) methods. SEM not only offers theoretical advantages. Simulation studies also show that in practice, SEM may be more robust to suboptimal data conditions (e.g., nonnormally distributed variables) than supposedly less demanding regression approaches. I present results from two simulations, and illustrate nonlinear SEM in two applications from industrial and organizational psychology.