

STATS WORKSHOP

Factor analyses and regression modeling



INSTRUCTOR

Dr. Mason A. Wirtz
University of Salzburg

DATE

Wednesday
27th NOVEMBER 2024

TIME

09:00–16:00 (w/ lunch break
between 12:00–13:00)

PLACE

University of Salzburg
Unipark 4.204

COURSE DESCRIPTION

In this workshop, we will cover the basics for conducting factor analyses and regression modeling. Using openly available data sets, we will apply factor analyses to language attitudes data. The majority of the workshop will be spent on regression analyses: We will focus on how data sets need to be set up in order to conduct regression analyses, how one can evaluate model performance, selecting predictor variables, employing different distribution families to deal with different distributions of the outcome variable (e.g., binomial logistic regression, multinomial regression, Beta regression, etc.), when and how to use mixed-effects models, and visualization of resultant models. We will have ample time for questions so that participants may apply regression models to their own data. For advanced participants, there will be time to discuss more sophisticated regression techniques, such as Bayesian methods and generalized additive modeling.

The course is aimed at PhD and MA students who plan to work quantitatively, and is open to any interested faculty. All parts of the workshop will include hands-on exercises. Prior knowledge of R is advantageous.

We will cover the following topics:

- ◆ Factor analyses
- ◆ Regression modeling
- ◆ Assessing model performance
- ◆ Working with different distribution families
- ◆ Visualization of regression models

LANGUAGE

English and/or German (depending on the participants)

INTERESTED?

Please contact mason.wirtz@plus.ac.at to register your interest



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& DIGITAL LIFE