TwinLife

Behavioral Genetic Data Analysis — Advanced workshop

A workshop on more advanced concepts and statistical methods of behavioral genetics

In this workshop, participants will be introduced to more advanced concepts and models of behavioral genetics. Using the data of the TwinLife study, participants will learn how to analyze twin family data with more complex models in R and to interpret the results.

Lecturers

PD Dr. Bastian Mönkediek
and Dr. Theresa Rohm

When?

26.03.2025
from 9.30 AM to 16.30 PM

Where?

This workshop will take place at University of Bremen

Course language

This workshop will be held in **English**

Registration fee

None, participation at this workshop is **free**

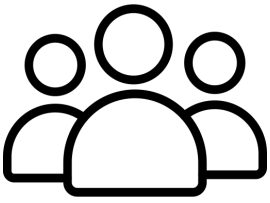
Registration

Please register via our
--> submission portal

The flyer was created using resources from flaticon.com.

Target group

Social scientists from a broad disciplinary range (e.g., sociology, psychology, economics, political science) interested in including behavioral genetic models to their methodological toolbox. Basic knowledge of R and of behavioral genetic data analysis (e.g., computing univariate ACE models) is recommended.



Workshop Program

At the beginning of the workshop, a short recapitulation of the basics of behavioral genetics will be provided. The workshop will cover ACE models of additive genetic effects (A), the shared environment (C) and the nonshared environment (E) within a structural equation model (SEM) framework. Examples for cross-sectional and longitudinal TwinLife data will be implemented in R (e.g., using lavaan) and results will be interpreted. Furthermore, gene-by-environment interplay (i.e., gene-environment correlation and interaction) will be discussed and examples for TwinLife data will be implemented in R (e.g., using umx).

TwinLife Study

The German TwinLife study uses a longitudinal twin-family design to collect data from about 4,000 families. It covers a vast number of multidisciplinary topics as well as measures of cognitive ability and personality in order to discover how inter-individual differences and social inequality arise. The data of the study is available to the research community and will be used for the practical session in this workshop.

If you have any questions, please contact us at the following email address: twinlifeuserconf@uni-bremen.de

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