

## Getting started with 'R' – analysing and visualising your statistical data

### Content

'R' is a complete, flexible, and open-source system for statistical analysis which has become a core tool of choice for a wide range of researchers spanning over multiple disciplines. The aim of the present workshop is to give the participants a first step hands-on practical session on the 'R' environment by introducing the principals and most used commands in a practical manner to help them explore, visualize, and adapt hypothesis depending on the nature of their datasets.

### Learning Objectives

At the end of the course, participants should become comfortable with the R environment and be able to read, understand and write R commands,

- interact with the R environment
- import and summarize data
- explore data with models and graphics
- manipulate data frames
- produce high quality publication level graphics
- statistical hypothesis

### Individual Feedback

On demand meetings with the lecturer are possible within 14 days after the workshop. You will get the unique opportunity to discuss your research data analysis, be advised on the methodology and suitable ways to perform your analysis using R-statistics.

Trainer: Dr. Walid Gharib

Target Group: (Post)Docs planning to work with R to analyze and visualize data.

Language: English

Nr of Participants 17

Requirements                      No prior knowledge in R is assumed, however, basic statistical school knowledge is required to for simple statistic metric. Intermediate models will be introduced during the workshop.

Dates                                      September 16-18, 2024, 8 a.m.-4 p.m.

Location                                  University of Bern, Parkterrasse 14, room 323

ECTS                                        1 (ca. 25-30h workload)

#### Further Information

Please bring a Wi-Fi enabled laptop with a running version of R and R-studio.

If you don't have R and R-studio installed, please proceed with the installation prior to the workshop.

Install R: <https://www.r-project.org/>

Install R-studio: <https://www.rstudio.com/products/rstudio/download/>