
Professional Development Programme

Methods Course

Introduction to R

Dr. Alexander Förster

21 – 23 February 2024

09.00 – 13.00 hrs.

Objectives

R is a versatile and open-source programming language specifically designed for data analysis, data visualization, and statistical modelling. This course offers a comprehensive and beginner-friendly introduction to R, equipping you with the foundational knowledge and practical skills to navigate the world of data science.

Topics

- How to interact with R commands and how R understands data (data types, vectors, lists, matrices, and objects)
- Reading your data into R (import data from a file)
- Examining a set of data (statistical methods in R)
- Manipulating data in R (grouping, loops, and conditional execution)
- Visualizing your data (basic plotting and maps)
- Writing your own functions
- Good coding practice
- Extend R with packages

Methods

The course will consist of lectures, demonstrations and exercises. It will also include time for independent work on tasks and joint discussions on code solutions and other open questions you may have.

Software used during the course

R: version 3.4.2 (<https://cran.r-project.org>)

R studio: at least version 2023.09.1-494 (<https://www.rstudio.com>)

Please make sure that the software is installed on your laptop and ready for use by the beginning of the course. People who do not have their own laptop may borrow one from the ECR support. This needs to be indicated in the registration form.

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Target group

Beginners with no prior experience in R

Venue

MARUM University of Bremen, Leobener Str. 8, 28359 Bremen, Germany
MARUM I (main building), room 2060

Registration

To register for this course, please visit the course web page:

<https://www.marum.de/en/education-career/professional-development/2024/2024-02-21.html>

Please note that your registration will be binding.

The registration deadline for this course is **13 February 2023**.

Any enquiries regarding this event can be addressed to early-career@marum.de.