

Programming in R for data analyses

Prof. Dr. Stephan Frickenhaus, AWI

Date & Time:	1 & 2 October 2019	9:00-16:00
Location:	E - 4025	
Language:	English	
POLMAR credit points:	2	
Registration:	info.polmar@awi.de	

Course content:

The course will lay conceptual and technical basics to the needs for R practice, e.g., in the statistics courses offered by Dieter Wolf-Gladrow within POLMAR or your own application field of data analyses. I will focus on data input and output methods, processing and connecting data from many files, data reformatting for different applications, data transformation and usage of R packages and their structured data objects; in particular, accessing analyses results from objects is trained. Additional techniques are trained, such as loop-programming, code-optimization by “apply” functions, data organisation and processing in lists. Many coding suggestions are given to improve readability and reusability of your R programs.

Day 1: Effectively organising R projects, theory of R data structures, addressing data in large tables, Graphical data exploration, filtering subsets

Day 2: Loop and list programming, performance issues, putting many tables together

Target group:

Data analysts, requiring programming basics and knowledge of advanced features to usage of R packages and data objects. ***This course is a pre-requisite for participation in the Multivariate Statistics Course, held by Prof. Michael Greenacre in October this year!***

More information:

You need a notebook computer, installation of R (free of charge from r-project.org) and RStudio (free of charge from rstudio.com).

Our courses are generally free of charge for all participants. However, they do have a price and can cost POLMAR as much as 150 € per day per student. Please take this into account when cancelling your place at the last minute.
