

Introduction to R Workshop

Cologne Center for Comparative Politics

October 26 - 28, 2020



Online workshop

Due to the current situation, the workshop will be held completely in the online format, using the platform Zoom. Links for the participation via Zoom will be shared with registered students shortly before the workshop.

Workshop description

R is a powerful statistical language used widely for data processing, analysis and visualisation within variety of fields. The course will provide students with sound foundation in data handling and visualisation using a set of tools within R and RStudio environments. The workshop specifically intends to prepare prospective students of Dr. Bruno Castanho Silva's course "Introduction to Quantitative Analysis."

Students are required to sign up for the workshops. The slots will be allocated on the first come, first served basis. Please, subscribe via ILIAS. Any further questions can be addressed to Daniel Saldivia Gonzatti via the following email: saldivia@wiso.uni-koeln.de

To register, please, follow this [link](#).

Location and time

The workshop will take place through the platform Zoom on October 26-28, 2020. Time: 9.00 - 15.00, including pauses (preliminary).

Workshop outline

Workshop participants will learn, in an applied manner, about different types of data within the R environment, preparing them to handle own data in a clean, robust and reproducible manner. Specifically, we will work in RStudio which is a great way to combine and code its output with text, allowing one to integrate code and analysis in a narrative manner.

At the end of the course, you will be able to

1. Install R, and RStudio;
2. Download, install and navigate through packages and their core functions (if you do not know what a package is, that is what the course is for);
3. Read and write lines of R code;
4. Understand what tidy data means, how to produce it and work with it;
5. Have a clear understanding of different data objects;
6. Import, read, manipulate, save and visualise data;
7. Use the basic tools of the packages dplyr and ggplot;
8. Write and produce reports with RMarkdown (like was done with this PDF document).

Workshop prerequisites

1. The course does not require prior knowledge of R or data analysis.
2. Students must use their own laptops.