



BAMBERG
GRADUATE SCHOOL
OF SOCIAL SCIENCES



FURTHER EDUCATION | WORKSHOP

Data Visualization with R

Instructor: Dániel Kovarek, PhD, European University Institute

Date & Time: Monday, January 13, 2025, 10.00 a.m. to 03.00 p.m. (s.t.)

Wednesday, January 15, 2025, 09.00 a.m. to 12.00 a.m. (s.t.)

Place: BAGSS, Feldkirchenstraße 21, 96050 Bamberg, Room FG1/00.06

Registration: To register, please send an email to courses.bagss@uni-bamberg.de by Wednesday, November 27, 2024. Registration is mandatory. The number of participants is limited to 16.

Short Outline

The aim of the workshop is to provide an accessible introduction into the use of R for data visualization. R's ggplot2 package and its extensions provide a flexible framework for data visualization and they are widely used in both academia and industry.

Topics covered:

- Data visualization basics (very briefly)
- Introduction to the most common plot types (barcharts, scatterplots, line charts, etc.)
- Introduction to less common plot types (maps, sankey diagrams, dumbbell plots)
- How to visualize results of different research outputs
- Creating unique themes
- Programming with ggplot2

The workshop is practice-oriented, which means that we will have some smaller and bigger coding challenges to exercise the ggplot muscle memory early on. If you have your own dataset and are looking for ideas on possible ways to represent it, let me know and we can take a collective look at it.

The workshop mainly aims at doctoral members of LifBi and BAGSS. In case of any vacant places, it is open to anyone interested.





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Prerequisites

- You should have a working R (version 4.3.1+) and RStudio (version 2023.03.0+) installed.
- Basic familiarity with R is expected.
- Some statistical knowledge is also assumed (but not necessary).

About the Trainer

Dániel Kovarek is a Research Fellow at the European University Institute, Florence, Italy. He holds a PhD in Political Science from the Central European University. He studies political behavior at the voter and the elite level; his expertise lies in the intersection of political geography and distributive politics. Previously, Daniel has been teaching a wide variety of graduate-level courses on quantitative methods, applied statistics, experiments, programming, research design, as well as comparative politics. His research has appeared in *Democratization*, *Research & Politics* and *The ANNALS of the American Academy of Political and Social Science*, among others.