

Introduction to data analysis with R

R is a popular, free tool for scientists, offering fast, reproducible data analysis with many extensions and an active and supportive community.

Workshop description

By the end of this workshop you will be able to read, clean, visualise, and analyse your own research data in R, and you will have the foundation to keep learning R for your specific needs.

Outline

Over 4 workshop days (9 am – 3:30 pm), we cover the following topics:

- **Day 1:** Introduction to R and Positron, reading data into R, good-practice R coding
- **Day 2:** Data visualisation with ggplot and data wrangling with dplyr
- **Day 3:** Data cleaning with tidyr, statistical tests, reproducible documents with Quarto
- **Day 4:** Bring your own research data (or use real-world data I'll provide)

Every input session is followed by hands-on exercises, because the only way to learn programming is to write code yourself.

Who is this workshop for?

Beginners without prior R or programming experience. You're welcome to join if you already know another programming language.

Format

Online, in English. You'll need to install R and Positron before Day 1; instructions will be sent ahead of the workshop.

About the instructor

I'm a scientific programmer at Freie Universität specializing in theoretical ecology. R is integral to my daily work, and I regularly teach R workshops for graduate students and researchers.

Questions about the course? Email me at selina.baldauf@fu-berlin.de.