**Learning R for research and reporting: From basics to advanced applications**

Course content and timetable

Spring 2024

|  |  |  |
| --- | --- | --- |
| Date | Time | Subject |
| 12. January | 12:30-14:15 | Introduction to R and RStudio |
| 19. January | 12:30-14:15 | Importing and working with data in R |
| 26. January | 12:30-14:15 | How does R work? |
| 02. February | 12:30-14:15 | Data management with *dplyr* |
| 09. February | 12:30-14:15 | Data visualisation with *ggplot2* |
| 16. February | 12:30-14:15 | Descriptive statistics |
| 23. February | 12:30-14:15 | Regression analysis |
| 01. March | 12:30-14:15 | Logistic regression analysis |
| 08. March | 12:30-14:15 | Multilevel analysis |
| 15. March | 12:30-14:15 | Structural equation modelling/factor analysis |
| 22. March | 12:30-14:15 | Introduction to programming in R: Iterative and conditional statements |
| 05. April | 12:30-14:15 | Introduction to programming in R: Function writing |
| 12. April | 12:30-14:15 | Reporting with RMarkdown/Quarto |
| 19. April | 12:30-14:15 | Reporting with RMarkdown/Quarto |
| 26. April | 12:30-14:15 | Wrap-up |

**Optional assignments**

After each lecture, there will be optional assignments that participants can choose to work on. We will also provide recorded videos showing the solutions to these assignments afterwards.

**Individual consultancy**

Each participant will have the possibility to request up to 2 hours of individual consultancy during the course (these meetings will take place in the form of one-on-one online meetings with one of the instructors during the course period). These hours can be used to consult on individual datasets/research problems or to give advice on streamlining the learning process within the course.