

Introduction to R: a CPD module

Course overview

R is a language and environment for statistical computing and graphics. It is available as free software and compiles and runs on Windows, MacOS, and a wide variety of UNIX platforms and similar systems. This half-day course includes recorded lectures and live computer practicals supported by a team of experts and aims to give its delegates experience of using the software.

Who should attend? Is it right for me?

This course is aimed at those who require a basic understanding of R software and is suitable for those who have no previous experience of R, as well as those seeking to refresh their skills. Statistical knowledge will not be covered as part of the course – the focus instead will be on using R to undertake basic statistical commands.

What is the course schedule?

This course runs online. The course will consist of 2 short lectures, each followed by a practical session. A suggested timetable is given in the table below. The lecture videos will be available online and can be watched at any time (from 2 weeks before to 2 weeks after the course is scheduled to take place). During the live practicals, materials can be worked through at the participants' own pace, but demonstrators are available to answer questions and assist with practical tasks.

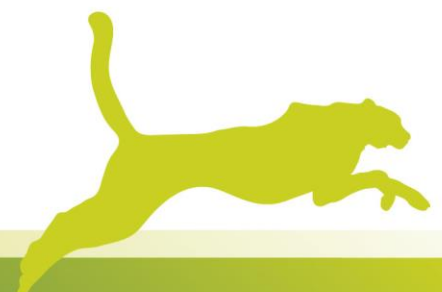
What will delegates learn?

By the end of this course delegates will have an understanding of:

- How to use command line to run code
- Various functions to read in, summarise and analyse data
- How to get help within R

What does the course cover?

- Data structure
- Reading data into R
- Summarising data via graphs and hypothesis tests
- Logistic regression
- Help commands and finding further assistance





Timetable

Time	Session
9:00-9:05	Live Introduction
9:05-9:15	Session 1: Data entry (Video lecture)
9:15-9:45	Live practical
9:45-10:00	Session 2: Data manipulation (Video lecture)
10:00-10:30	Live practical
10:30-11:00	Break
11:00-11:15	Session 3: Summarising data (Video lecture)
11:15-11:45	Live practical
11:45-12:00	Session 4: Regression (Video lecture)
12:00-12:30	Live practical

To find out more

Contact Dr Anna Fowler (a.fowler@liverpool.ac.uk) in the Department of Health Data Science.

Alternatively, visit the department's website at

<https://www.liverpool.ac.uk/population-health/about/health-data-science/courses-and-workshops/>.

