

R is a language and environment for statistical computing and graphics. R is highly extensible and is free software. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. The course assumes no prior knowledge of R and covers the following topics.

Prerequisite: you are assumed to be familiar with elementary statistical methodology such as hypothesis testing, analysis of variance, regression models etc.

Monday October 14 th	Tuesday October 15 th	Wednesday October 16 th	Thursday October 17 th	Friday October 18 th
9:00 Amphi <u>R & RStudio</u> - R packages - R command and script <u>Data management</u> - Importing (reading) - Data types and structure - Recoding variable - Exporting (saving) Nolwenn Le Meur	9:00 Amphi Quizz <u>Exploratory Data Analysis (EDA)</u> - Summary statistics - Data visualization Nolwenn Le Meur	9:00 Amphi Quizz <u>Machine learning (1)</u> - Regression modelling with Tidymodels Nolwenn Le Meur	9:00 Amphi Quizz <u>Machine learning (2)</u> - Tree based models - Classification methods Nolwenn Le Meur	9:00 Amphi Project: Dataset analysis Nolwenn Le Meur
12:00 -1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch
Practice (Rooms 410 & 413) Nolwenn Le Meur & Briana Destaffan 4 pm	Practice (Rooms 410 & 413) Nolwenn Le Meur & Briana Destaffan 4 pm	Practice (Rooms 410 & 413) Nolwenn Le Meur & Briana Destaffan 4 pm	Practice (Rooms 410 & 413) Nolwenn Le Meur & Briana Destaffan 4 pm	Project: Dataset analysis (Rooms 410 & 413) Nolwenn Le Meur 4 pm