

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 18 <sup>th</sup>	Tuesday October 19 <sup>th</sup>	Wednesday October 20 <sup>th</sup>	Thursday October 21 <sup>st</sup>	Friday October 22 <sup>nd</sup>
<b>Rooms : Amphi, 408, 409</b>	<b>Rooms : Amphi, 408, 409</b>	<b>Rooms : Amphi, 408, 409</b>	<b>Room : GSRdC</b>	<b>Room : GSRdC</b>
9:00  <u>R &amp; RStudio</u> - R packages - R command and script - Rmarkdown  Nolwenn Le Meur	9:00 Quizz  <u>Descriptive statistics</u> - summary - univariate tests - intro to grammar-oriented programming  Nolwenn Le Meur	9:00 Quizz  <u>Graphical functions</u> - Basic plots - ggplot2 library  Nolwenn Le Meur	9:00 Quizz  <u>Regression modelling</u> - Linear regression - Logistic regression - Poisson regression  Nolwenn Le Meur	9:00  Project: Dataset analysis   Nolwenn Le Meur
<b>12:00 -1:00 Lunch</b>	<b>12:00-1:00 Lunch</b>	<b>12:00-1:00 Lunch</b>	<b>12:00-1:00 Lunch</b>	<b>12:00-1:00 Lunch</b>
<u>Data management</u> - Importing (reading) - Data types and structure - Recoding variable - Exporting (saving)  Nolwenn Le Meur	Practice   Nolwenn Le Meur	Practice   Nolwenn Le Meur	Practice   Nolwenn Le Meur	Project: Dataset analysis   Nolwenn Le Meur
4 pm	4 pm	4 pm	4 pm	4 pm

*Please note that some small changes could occur*