

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 16 <sup>th</sup>	Tuesday October 17 <sup>th</sup>	Wednesday October 18 <sup>th</sup>	Thursday October 19 <sup>th</sup>	Friday October 20 <sup>th</sup>
<p>9:00 <b>AMPHI</b>  <a href="#">R &amp; RStudio</a>                      - R packages                      - R command and script</p> <p><u>Data management</u>                      - Importing (reading)                      - Data types and structure                      - Recoding variable                      - Exporting (saving)                      Nolwenn Le Meur</p> <p>Practical examples with Amin Gharbi</p>	<p>9:00 <b>AMPHI</b>                      Quizz</p> <p><u>Exploratory Data Analysis (EDA)</u>                      - Summary statistics                      - Data visualization</p> <p>Nolwenn Le Meur</p> <p>Practical examples with Nolwenn Le Meur &amp; Amin Gharbi</p>	<p>9:00 <b>AMPHI</b>                      Quizz</p> <p><u>Machine learning (1)</u>                      - Regression modelling with Tidymodels</p> <p>Nolwenn Le Meur</p> <p>Practical examples with Nolwenn Le Meur &amp; Amin Gharbi</p>	<p>9:00 <b>GSRDC</b>                      Quizz</p> <p><u>Machine learning (2)</u>                      - Tree based models                      - Classification methods</p> <p>Nolwenn Le Meur</p> <p>Practical examples with Nolwenn Le Meur &amp; Amin Gharbi</p>	<p>9:00 <b>GSRDC</b></p> <p>Project: Dataset analysis</p> <p>Nolwenn Le Meur</p>
<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>
<p><b>408 &amp; 409</b>                      Practice</p> <p>Nolwenn Le Meur &amp; Amin Gharbi</p> <p>4 pm</p>	<p><b>408 &amp; 409</b>                      Practice</p> <p>Nolwenn Le Meur &amp; Amin Gharbi</p> <p>4 pm</p>	<p><b>408 &amp; 409</b>                      Practice</p> <p>Nolwenn Le Meur &amp; Amin Gharbi</p> <p>4 pm</p>	<p><b>GSRDC</b>                      Practice</p> <p>Nolwenn Le Meur</p> <p>4 pm</p>	<p><b>GSRDC</b></p> <p>Project: Dataset analysis</p> <p>Nolwenn Le Meur</p> <p>4 pm</p>