**Step5\_visualisation folder README**

This document describes the contents of the folder named Step5\_visualisation. The scripts in this folder retrieve results data from folders for the previous steps, import them, perform statistical analysis, and generate plots to visualise the data.

**Dependencies**

* R version 4.1.3, with the libraries:
  + dplyr
  + ggplot
  + ggpubr
  + ggsignif
  + rJava
  + rstatix
  + tidyr
  + tiff
  + xlsx
  + xlsxjars

**Contents**

* **Figures.** Contains folders for plots for different analyses.
  + **Frequency.** Plots for frequency analysis.
  + **TimeToPeak.** Plots for time-to-peak analysis.
* \_README.docx. This document.
* Fig.3.2\_TimeToPeak.r. R script for reproducing Figure 3.2.
* Fig.3.4\_Mwave\_1Hz.r. R script for reproducing Figure 3.4.
* Fig.3.5\_WSST\_1Hz.r. R script for reproducing Figure 3.5.
* Fig.3.6\_wCoh\_EEG.r. R script for reproducing Figure 3.6.

***Plotting figures***

If the folder setup is correct, these files should run as they are with no input. Plots are saved in tiff and pdf format in corresponding folders. You can change the parameters as you wish to change the appearance/data in the plots.

WARNING: restart R before you run the visualisation scripts. The plotting device is not configured well and sometimes plots the wrong plot in the image. Also, the outputs will differ slightly to those used to create the figures in thesis as they are slightly different versions.