**Effect of psilocybin on interoceptive ability**

This folder contains all code necessary to replicate our report. You will find the following files:

* read me.docx
* 00\_supporting\_R.rmd
  + contains a number of plots and data exploration steps that were done in R instead of Python
  + not essential to understanding the data simulation or hierarchical Bayes, but completes the reproducibility of the report
* 01\_data\_simulation\_explanation.ipynb
  + contains a detailed explanation of how we simulated the data, illustrated for a single subject
* 02\_data\_simulation.ipynb
  + applies the code from 01\_data\_simulation\_explanation.ipynb to all subjects in order to create a full simulated data set
  + you do not need to run this script unless you want to change something. the data simulated with the current settings are in simulated\_data\_fit.csv and simulated\_data\_raw.csv
* 03\_repeated\_measures\_ANOVA\_simulated.ipynb
  + uses the simulated data to carry out a repeated measures ANOVA analysis, including checking of assumptions and visualisation of results
* simulated\_data\_fit.csv
  + contains the alpha and beta values for the simulated data, as computed by the subject-level model
* simulated\_data\_raw.csv
  + contains the x, n, and r values for the simulated data, for use with a hierarchical Bayes model
* original\_data\_fit.csv
  + the Legrand et al. (2022) data fitted to the subject-level model

We recommend going through the scripts in order (you can skip the R script). If you have any questions, don’t hesitate to send us an e-mail!