

This Unit

- Everything we cover in this Unit will be taught following the principles of Open Science.
- All of the statistical analyses you do will be conducted using the R open source data science language.
- We will cover all of the core topics in Statistics for Psychology with an emphasis on reproducibility and transparency.
- You will learn how to produce reports in R Markdown - these reports contain your analysis code, your output and narrative describing what it all means.
- This Unit provides a foundation for the Workshops Unit next Semester where we will look at more advanced techniques with a focus on mixed effects models.

- The first half of each session will be a lecture, and the second half in the computer cluster.
- We will cover the problems around low experimental power.
- Next week we'll look at the RStudio interface and you'll run through some R code in a script I've written.
- We'll then look at data wrangling and data visualisation (incl. animated graphs).
- We'll explore AN(C)OVA and regression in the context of the General Linear Model.
- You'll cover Signal Detection Theory with Ellen.