

# Semester 2 Welcome

Data Analysis for Psychology in R 1  
Semester 2, Week 1

Department of Psychology  
The University of Edinburgh

# Semester 1 recap

# S1 weeks 1 - 5

- Collecting Data & Types of Data
- Describing and Visualising Categorical Variables
- Describing and Visualising Numeric Variables
- Describing and Visualising Relationships
- Types of Relations (functions)

**Formative report A**

# S1 weeks 7 - 11

- Probability Theory
- Probability Rules
- Discrete Random Variables
- Continuous Random Variables
- Sampling Distributions

**Formative report B**

# Things we hope you did last semester

## Engage with course materials

- Complete the weekly quizzes
- Attend lectures and complete any lecture activities or readings
- Work through the lab tasks and complete the formative reports
- Attend office hours for one-to-one support
- Write your questions on the discussion forum

## RStudio skills

- Basic arithmetic operations
- RStudio functionality
- Data exploration in R
- RMarkdown reporting
- ggplot!

A map of semester 2

## S2 weeks 1 - 5

- Confidence Intervals
- Hypothesis Testing: P-values
- Hypothesis Testing: Critical Values
- Hypothesis Testing & Confidence Intervals
- Making Decisions (Effect Sizes, Power, Errors)

Lecturer: Dr Umberto Noe (weeks 1-5)

## S2 weeks 6 - 10

- One Sample t-Test
- Independent Samples t-test
- Paired Samples t-test
- Chi-square test
- Covariance and correlation

Lecturer: Dr Emma Waterston (weeks 6-8)

Lecturer: Dr Monica Truelove-Hill (weeks 9-10)

# S2 Weeks 1-5

- Formative report C
- Group-based, as in the previous 2 practice reports
- This is the last practice report
- Due: 12 noon, Friday 17th February 2023

# S2 Weeks 6-10

- Assessed report, worth 30% of final DAPR1 grade
- To be done in groups (same groups as Formative Report C)
- Only one person per group submits on behalf of the entire group
- No extensions allowed as this is group work based
- Due: 12 noon, Friday 31st March 2023
- Based on your feedback from semester 1:
  - Peer adjusted marking
  - Report grade: 90% from content, 10% from contribution rated by your peers
- Don't plagiarise!
  - You cannot share information with a different group
  - You cannot share code with a different group
  - You cannot use code from another group and add your own write-up
  - You cannot plagiarise example solutions



# Exam information

- When and where: May exam diet. The exact date will be announced later by the University timetabling unit. The location will also be announced later by the University timetabling unit
- Format:
  - In-person written exam in an exam hall
  - 2 hours long
  - 60 multiple choice questions
- An equation sheet will be provided in the exam hall, you cannot bring your own one
  - You can preview the equation sheet as a PDF file on LEARN
  - LEARN > Course Information > Final Exam Information
- Bring multiple pens (blue or black ink) and a pocket calculator
  - Your phone is not allowed as a calculator

# Equation sheet

- See Course Information on LEARN
- Familiarise yourself with the equation sheet, you will be provided with a copy in the exam hall
- Note: the sheet may change slightly over the course of the semester. Changes will be announced!
  - Make sure you check the Piazza discussion forum and LEARN announcements regularly.
  - The up-to-date version will be in folder shown.

# Mock exam

- A file with a few example questions will be added to the Final Exam Information folder.
  - LEARN > Course information > Final Exam Information
- An announcement will be sent when this has been added.
- Remember, the exam will have 60 multiple choice questions!

