

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

- Lecturer: Dr Patrick Sturt
- **Block 1: Exploratory Data Analysis**
 - Collecting Data & Types of Data
 - Describing and Visualising Categorical Variables
 - Describing and Visualising Numeric Variables
 - Describing and Visualising Relationships
 - Types of Relations (functions)
- Labs: **Formative report A**
- Week 6: Formative Report A solutions & feedback
 - You should have studied the example Rmd and PDF solutions

S1 weeks 7-11

- Lecturer: Dr Marju Kaps
- **Block 2: Probability**
 - Probability Theory
 - Probability Rules
 - Discrete Random Variables
 - Continuous Random Variables
 - Sampling Distributions
- Labs: **Formative report B**
- Week 12: Formative Report B solutions & feedback
 - You should have studied the example Rmd and PDF solutions

A map of semester 2

S2 weeks 1-5

- Lecturer: Dr Umberto Noè, FHEA
- **Block 3: Inference.** How do we use data from a sample (i.e. a subset of the population) to draw conclusions for the wider population (for which we don't have the full data)?
 - Confidence Intervals
 - Hypothesis Testing: P-values
 - Hypothesis Testing: Critical Values
 - Hypothesis Testing & Confidence Intervals
 - Making Decisions (Effect Sizes, Power, Errors)
- Labs: **Formative Report C**
- FLW: Formative Report C solutions & feedback

S2 weeks 6-10

- Lecturer: Dr Emma Waterston, FHEA
- **Block 4: Common hypothesis tests**
 - One Sample t-Test
 - Independent Samples t-test
 - Paired Samples t-test
 - Chi-square tests
 - Covariance and correlation
- Labs: **Assessed Report**
- Week 11: Online exam prep session, will be recorded. Details and link will be sent in an announcement!

Formative report C (S2 Weeks 1-5)

- Group-based report, as in the previous two practice reports
- This is the last practice report
- **Due: 12 noon, Friday 14th February 2025**
- You must have joined a group by the end of week 3. No group changes allowed after week 3.

Assessed report (S2 Weeks 6-10)

- The assessed report is 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 28th March 2025**
- Once the report has been graded, **each student's grade will be adjusted (up or down) based on their contribution as rated by their 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 (60% of final grade)

- Main Exam Diet (April/May). Exact date/location will be announced by the timetabling unit. Format:
 - In-person written exam in an exam hall, closed-book
 - 2 hours long
 - 60 multiple choice questions (MCQs)
- Bring your student ID card for identification.
- What you can bring (in a transparent bag):
 - A calculator
 - Pencils (multiple!)
 - Eraser
 - Pencil sharpener
- You will be provided with:
 - The exam questions paper with an equation sheet at the end
 - An MCQ answer sheet
 - Script book for rough work
- You **cannot** take any of the three papers above outside the room.

Final Exam Information

In Flexible Learning Week, we will release a folder on LEARN called "Final Exam Information":

- LEARN > Assessment > Final Exam Information

We will post there:

- Equation sheet (released in FLW)
 - 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 and the folder will always show the most up-to-date version.
- Mock exam (released ahead of the online exam prep session)
 - A file with a few example questions will be added to this folder closer to the exam prep session of week 11.

