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)
- Formative report A
- Week 6: Feedback on Formative Report A
 - You should have studied the example Rmd and PDF solutions

S1 weeks 7-11

- Lecturer: Dr Monica Truelove-Hill
- Block 2: Probability
 - Probability Theory
 - Probability Rules
 - Discrete Random Variables
 - Continuous Random Variables
 - Sampling Distributions
- Formative report B
- Week 12: Feedback on Formative Report B
 - You should have studied the example Rmd and PDF solutions

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 any outstanding 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

- Lecturer: Dr Umberto Noè, FHEA
- Block 3: Inference. How do we use data from a sample (i.e. a subset) 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)
- Formative Report C
- FLW: Feedback on Formative Report C

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
- Assessed Report
- Week 11: Drop-in style labs for you to ask questions while revising for the exam

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 16th February 2024
- 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 29th March 2024
- 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
 - o 2 hours long
 - o 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
 - An MCQ answer sheet
 - Script book for rough work
 - An equation sheet (you cannot bring your own one)
- You cannot take any of the four papers above outside the room.

Folder: Final Exam Information

See:

• I FARN > Assessment > Final Fxam Information

You will find:

- Equation sheet
 - 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
 - A file with a few example questions will be added to this folder later in the semester, and an announcement will be sent when this has happened.
 - Remember, the exam will have 60 multiple choice questions!

