**First Continuous Evaluation, November 2023, Statistics-I**

We want to examine whether individuals evaluate differently a short story depending on the biography of the writer. The experimenter presents the same short story to two groups of 80 individuals each. The assignment of the participants to the groups was at random. In one group, the writer is presented as someone who had been the president of a country responsible for systematically violating UN resolutions for decades, but was now a member of a peace organization. In the other group, there was no information about the writer's previous occupation (i.e., only that he was currently a member of a peace organization). Participants had to evaluate the originality of the story, the quality of the story, and the emotion-inducing nature of the story. For potential exploratory analyses, the experimenter also collected the age and gender of the participants.

1.a Is this an experimental or quasi-experimental design? Why?

1.b How many rows and columns will we need to analyze the data? Justify your answer.

2.a How many independent variables and dependent variables do we have in this study? Indicate them.

2.b Let’s suppose that the group that received the writer's entire work history evaluates the short story as lower quality, less original, and less emotional than the group that received only the writer's current work in the bio. What could you (reasonably) do to further examine this question?

We have the following database (<https://www.uv.es/mperea/9novb.jasp>), which contains a number of variables in a sample of participants. We ask the following two questions.

3. What z-score in Anxiety corresponds to the person in the first row of the database (in relation with the whole group)? What does it mean? Justify your answer. Also Copy/Paste the screen with the z-score.

4. First of all, we want to EXCLUDE in this question all individuals of 19 years old or younger. Then, we want to examine whether there are differences in recall between the students who choose Social Sciences and those who choose Health Sciences in secondary school. Please, indicate in one/two sentences the main conclusion with the support of statistics and plots from JASP.