

Task 6 Hypothesis Test

Data: download survey1.csv + corresponding questionnaire + codebook

Due Monday 12 noon 02.12.2019 - as jupyter notebook in groups of 3

For all 3 questions below state (+ visualise):

- A. Corresponding H1, H0
- B. Type 1 error, type 2 error
- C. Conduct a short EDA
- D. Always check your assumptions first e.g. level of measurement, random sampling, independence of observation, normal distribution*, homogeneity of variance* (*especially these two)
- E. What test are you going to use and why? One sided / two sided?
- F. What is your finding, please report and elaborate?
 - a. How much confidence do you have in your result (effect size, sample size, alpha)?
 - b. What is the effect size? Your interpretation?

Questions to answer

1. Is there a significant difference in self-esteem scores for males and females (tslfest, sex: male=1 female=2)
2. Is there a significant difference in perceived stress scores for males and females (tpstress, sex: male=1 female=2)
3. Find a question of your own and answer it (also consider A.-F) (for more info about the data set, see questionnaire + codebook)

tslest: is the total score that participants recorded on a ten item Self-esteem Scale, similar total perceived stress tpstress.