SPSS Assignment 1

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# Context (20 points)

You are interested in whether there are differences in the amount of phone calls that are being made between male and female students. You think that there will be a difference between the two groups but you’re not sure which group will have a higher score. Create hypotheses and conduct all the analyses and visualizations below. You will submit your answers to anything that is not SPSS specific (hypotheses, t critical value, write up) on this **word document and will turn in this document** as well as your **SPSS output file**. Email me if you have any questions about submitting both documents.

## Create a null and alternative hypothesis (4 points)

H0:

H1:

## Create a composite average score for phone calls (2 points)

* there are two variables that will make up the composite score

## Conduct descriptive statistics for the following variables (2 points)

* you can decide what descriptive statistics you want
* include a visual (e.g., histogram)
* make sure to include your initials after the composite score
* ccc\_gender
* mtuas\_phonecall\_q1
* mtuas\_phonecall\_q2
* avg\_phonecall\_jp

## Check the assumptions (1 point)

* Does your data look normal based on the tests and visuals?
* Are there outliers? Which participants are outliers if there are any?

## Conduct inferential statistic (independent samples t-test) (3 points)

* Report the correct inferential statistics in the form of a t-test (e.g., t(df) = t value, p value)

## Is your finding statistically significant? (1 point)

## find the t-critical value for a two-tailed test (2 points)

* look at your t table to see the t critical value for your test

## Show some type of visualization that shows the difference between males and females regarding their phone calls (2 points)

## Reject/Retain the Null Hypothesis? (1 point)

## Write up on your findings (2 points)