PSYC 2317: Statistical Methods for Psychology

Tarleton State University Week 12 Homework Fall 2019

For both problems below, you'll need to download the survey1. jasp file from Canvas.

- 1. Use JASP to conduct an analysis of variance, where *political view* is the independent variable, and the dependent variable is a variable of interest to you (the following are some good ones: books, TV, exercise, drinks, GPA, GRE-Quanititative).
 - (a) Write down specific definitions for the null hypothesis \mathcal{H}_0 and the alternative hypothesis \mathcal{H}_1 .
 - (b) Report the F statistic (with degrees of freedom) and the p-value. What do you conclude?
 - (c) Compute the effect size η^2 and explain what it means.
 - (d) Perform a post-hoc test on the condition means. Which means are the same? Which are different?
- 2. Repeat the previous exercise, but this time use *hair color* as the independent variable.