**USC** Viterbi School of Engineering

**Project Part 3**

**Goals**

The purpose of this assignment is to analyze, write up and think critically about the results of your user study. (300 points)

**Assignment**

Complete this assignment in a word document, with sections that correspond to the requirements below. Then submit it on Blackboard.

Describe (in a maximum of 3 \*new\* pages) the project that you proposed in part 1 (300 points)

* 1. Include (the same) short description describing the project that you proposed in part 1.
  2. State what kind of analysis you did, and what your result is for every “test statistic” that you conducted (ie a 2 way ANOVA has a test statistic for each of the two main effects, and one for the interaction, so what was the result of each). This needs to be written like a results section: no commentary, just the results in APA format.
  3. Did the results support your hypothesis or not? That is, could you reject the null hypothesis, and thereby show support for your hypothesis? What type of error might you be making (type I or II), and what is the chance of that error? How do you know (ie where/what did you do to find the chance of that error you might be making)?
  4. If you did not need to do a power analysis for c above, conduct a power analysis now to see the likelihood you had of finding an effect as big as the one you found (also what was your effect size? – make sure you present Pearson’s R or Cohen’s D).
  5. Write a short discussion section like what you might see in a paper. What are the \*big\* take away conclusions from your results? I.e., what do they mean? Interpret them for readers. This is the commentary that you left out of b above. What are the limitations of your study? *For example: Did you have any confounds? Was your sample representative? Other limitations? Also mention from d above if your power was too low (If your power was high but you still didn’t find an effect, what does this mean?).* **Think critically about your own design and study.**
  6. Include as an appendix that includes both previous assignments (part 1 and 2), which you can update based on comments you’ve received and/or new understanding making sure you highlight all changes in red font. If you don’t have any changes you can make, then put a note in red at the top of the appendix indicating that. As a second appendix, also provide a screenshot of G\*power showing one of your power analyses. These appendices dont count towards your page “limit”…

**PLEASE use these numbers and letters to outline your project report. That is do not just write one giant block of text, use the bullet points noted above. *However, use full sentences and not phrases or incomplete sentences.***

***IMPORTANT NOTES***

*Plagiarism – presenting someone else’s ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences.  Please familiarize yourself with the discussion of plagiarism in SCampus in Section 11, Behavior Violating University Standards* [*https://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions*](https://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions/)*.  Other forms of academic dishonesty are equally unacceptable.  See additional information in SCampus and university policies on scientific misconduct,* [*http://policy.usc.edu/scientific-misconduct*](http://policy.usc.edu/scientific-misconduct/)*.*

*A number of USC’s schools provide support for students who need help with scholarly writing.  Check with your advisor or program staff to find out more.  Students whose primary language is not English should check with the American Language Institute* [*http://dornsife.usc.edu/ali*](http://dornsife.usc.edu/ali)*, which sponsors courses and workshops specifically for international graduate students.*

*For more information, see the class syllabus and the USC web site.*