

PSY 811/828: Computer Applications in Psychology
VassarStats for Statistics Assignment (10 points)
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DUE: 29 April 2019

Submit either online or to pigeonhole in the Department of Educational Foundations

The same data is used for this assignment as for the previous assignment (Teacher Satisfaction). Note that there are now two Income variables. The original Income variable was entered by letter. The letters have now been re-coded to numbers, with 1 reflecting the lowest salary and 8 reflecting the highest salary. This is now an ordinal variable and can be used for correlations.

Use VassarStats to compute the following.

1. Calculate a t-test comparing the following. Report the t, df, p (3 decimal places) and mean scores for each. Interpret the findings.
 - a) Males to Females on job satisfaction
 - b) Private vs. Government school teachers on job satisfaction
 - c) Private vs. Government school teachers on stress

2. Calculate the correlation between the following. Report the correlation (3 decimal places) and the t, df, and p (3 decimal places). Interpret the correlation.
 - a) Income and job satisfaction
 - b) Job satisfaction and social contribution of teaching

3. Calculate a one-way ANOVA for the following. Report the F, df, p (3 decimal places) and mean scores for each. Also report Tukey's HSD for any necessary post-hoc tests. Note: Only compare levels A, B, and C (nursery, primary, and secondary).
 - a) Level of teaching and job satisfaction
 - b) Level of teaching and social contribution of teaching

4. Calculate a 2x2 Factorial ANOVA with Gender and Type of School (Private vs. Government) on job satisfaction.