

### Take-home test #3: Chi-square

**Due:** Friday 16<sup>th</sup> July 23:59 via Moodle

You are required to analyse data from the Course Survey. Your take-home test should consist of a 150-word interpretation of the results of your analysis. This must be submitted as a Word document on Moodle along with the associated SPSS output pasted in Word as an Appendix. The word count is firm, no 10% leeway. Do not use gotflu with flushot or gotflu with year as your variables.

#### Instructions:

- Select two appropriate variables to conduct a chi-square from the Course Survey dataset.
- Find published empirical research that provides a rationale for a relationship between these variables, and cite it using APA style. The citation is included in the word count, but the reference is not.
- Use SPSS to conduct the chi-square.
- Write a 150-word description of your findings.
- Provide descriptive statistics for the variables you selected.
- State your null and research hypotheses.
- Verify the assumptions for a chi-squared test are met.
- Report and interpret the results:
  - Report and interpret the results of the chi-square test including the appropriate percentages,  $\chi^2$  value, degrees of freedom, and significance level (p value).
  - Report the appropriate effect size and state the strength of the relationship.
- Copy the relevant SPSS output and paste it in Word as an Appendix after your 150-word write-up
- Include the word count of your write-up at the top of your document.

#### Marking checklist - 15 points in total:

1. Cites empirical research that provides a rationale for the hypothesised relationship using APA style – 2 points
2. Selects two appropriate variables for conducting a chi-square and provides appropriate descriptive statistics - 2 points
2. Provides a null hypothesis and a non-directional research hypothesis - 1 points
3. Checks assumptions accurately - 1 point
4. Reports and interprets the results of the chi-square using APA style (that is,  $\chi^2$  value, df, p value, decision regarding null hypothesis, Phi/Cramer's V, notes strength of the association) - 6 points
5. Reports percentage of individuals in each cell – 1 point
5. Provides SPSS output that matches the statistics reported in the 150-word description – 2 points

*This assessment task is to be completed independently. If your take-home test is identical or almost identical to another students' take-home test, you will be reported to the School Student Ethics Officers.*

**NOTE:** This is a take-home test. You cannot ask your tutors for help with this Assessment. Post any questions on the Moodle Forum.