

STA303H1S / 1002 HS Winter 2019 Assignment # 3 Part 1

Due: In Crowdmark by 10pm on Thursday, March 21, 2019.

Late assignments will be subjected to a penalty of 20% per day late.

Grading: This part of the assignment is worth 10 marks.

PART 1 - Research Article Review

(10 marks) Using the virtual Library Guide under Assignments Section in the class website, identify a recent research article in your field of interest (for example, Finance, Health, Psychology) that includes a section with statistical analysis. The article must have been published by at least one University of Toronto author within the past four years (that is, 2015 to present). Note, STA1002 students are allowed to write about their current research (or proposal).

Based on your article of choice, answer the following.

1. What was your selected field of interest?
2. Write a proper reference for the article, including the author(s), title, journal, year of publication, volume and page indices. Provide a link to the article or a soft copy of the article.
3. Which UofT department was the UofT author affiliated with?
4. Which statistical software was used for the data analysis?
5. Was the data derived from an observational study or experiment?
6. Did the article present summary statistics? Name the summary statistics presented.
7. Did the article present tables and/or plots? Explain. How many plots were there? How many tables were there?
8. Did the article present test statistics, their distributions under H_0 , p -values and/or confidence intervals? Explain.
9. To how many decimal places were values reported? Explain.
10. Identify at least one statistical method used to analyze the data.

- *Grading Notes:*

- No more than 2 students are allowed to choose the same article. If this occurs, the marks for this part will be scaled by the number of persons with the same article.
- If you work with another student on this part, then indicate the name of the student on your solutions.
- For Participation 6 mark, give the reference of your article in the online Participation 6 Discussion Forum. This can be done by stating the title and year of publication, and providing a link to the text or providing the article itself. This forum will be used by the grader (and can be used by student) to identify the first person or persons with the same article.

- *Further assistance* in acquiring suitable articles can be sought from Head Librarian, Bruce Garrod at the Math or Earth Sciences Library.