STA304 - Summer 2021

Assignment 1

[ADD YOUR NAME HERE - STUDENT NUMBER]

Part 1

Goal

<Explain the goal/topic of your survey here.>

Procedure

<Explain the goal/topic of your survey here. Also, you should remove the "<>" brackets.>

Showcasing the survey.

<Provide a link to your survey. Here is an example of how to put a url into your document: https://www.surveymonkey.co.uk/r/99CGC3B [1].>

<Choose 3 questions in your survey to showcase in this submission. It is recommended that you showcase questions of different types (e.g., a combination of numerical and categorical question types). You can format this however you'd like, but we prefer it to be organized. I would recommend bolding the question (using this **Question 1**) and following each question with a description and some commentary on the appropriateness and pros/cons of that particular question.>

Part 2

Data

<Type here a paragraph introducing the data, its context and the data collection/simulation process.>

<Type here a summary of the cleaning process.>

<Include a description of the important variables.>

<Include a description of the numerical summaries. Remember you can use `r` to use inline R code.>

```
# Use this to create some plots.
```

<Include a clear description of the plot(s). I would recommend one paragraph for each plot.>

All analysis for this report was programmed using `R version 4.0.2`.

Methods

<Include some text introducing the methodology.>

<Here you should describe the HT.>

$$include.your.mathematical.model.here.if.you.have.some.math.to.show$$

<Here you should describe the CI. Here is an example with a citation:>

I will invoke a non-parametric bootstrap [2] to derive the 95% confidence interval (CI) for the mean age of students in STA304.

Results

<Here you could present your results. You may want to put them into a well formatted table. Be sure that there is some text describing the results.>

<Note: Alternatively you can use the `knitr::kable` function to create a well formatted table from your code. See here: https://rmarkdown.rstudio.com/lesson-7.html. If you do this, be sure to include this in the bibliography [3].>

Bibliography

1. Grolemund, G. (2014, July 16) *Introduction to R Markdown.* RStudio. https://rmarkdown.rstudio.com/articles_intro.html. (Last Accessed: May 5, 2021)

2. Dekking, F. M., et al. (2005) *A Modern Introduction to Probability and Statistics: Understanding why and how.* Springer Science & Business Media.

3. Allaire, J.J., et. el. *References: Introduction to R Markdown.* RStudio. https://rmarkdown.rstudio.com/docs/. (Last Accessed: May 5, 2021)