

# STAT 757 Assignment 3

DUE 3/04/2018 11:59PM

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## Instructions [20 points]

Modify this file to provide responses to the Ch.3 Exercises in Sheather (2009). You can find some helpful code here: <http://www.stat.tamu.edu/~sheather/book/docs/rcode/Chapter3NewMarch2011.R>. Also address the project milestones indicated below. Please email **both** your .Rmd (or roxygen .R) and one of the following either .HTML, .PDF, or .DOCX using the format SURNAME-FIRSTNAME-Assignment3.Rmd and SURNAME-FIRSTNAME-Assignment3.pdf.

## Exercise 3.4.1 [20 points]

## Exercise 3.4.4 [20 points]

## Exercise 3.4.5 [20 points]

## Project milestones [20 points]

1. Announce your project team of 1 to 3 members.
2. Submit or describe the dataset you will analyze.
  - Include a data dictionary: What (and what type of data) are your variables? What are the observational units? How many observations and variables? Which variable will likely be your response ( $Y$ ) and which variables will be your predictors,  $X$ ?
3. Pose a preliminary research question(s) and a research hypothesis(es).

## References

Sheather, Simon. 2009. *A Modern Approach to Regression with R*. Springer Science & Business Media.