

# STAT 757 Assignment 7

DUE X/XX/2018 11:59PM

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## Instructions [20 points]

Modify this file to provide responses to the Ch.7 Exercises in Sheather (2009). You can find some helpful code here: <http://www.stat.tamu.edu/~sheather/book/docs/rcode/Chapter7.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-Assignment7.Rmd and SURNAME-FIRSTNAME-Assignment7.pdf.

## Exercise 7.5.3 [60 points]

### Project milestones [20 points]

1. Conduct your data analysis plan.
  - Apply your model to fake data and ensure a proper fit.
  - Apply your model to real data.
  - Decide whether model is valid for the real data.
2. Refine your model as needed until you are satisfied with the fit.
  - Don't make decisions based on  $p$ -values or other inferential devices!
  - Only consider the fit and whether your model addresses your research hypothesis.

## References

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