

# STAT 757 Assignment 6

DUE X/XX/2018 11:59PM

*AG Schissler*

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## Instructions [20 points]

Modify this file to provide responses to the Ch.6 Exercises in Sheather (2009). You can find some helpful code here: <http://www.stat.tamu.edu/~sheather/book/docs/rcode/Chapter6NewMarch2011.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-Assignment6.Rmd and SURNAME-FIRSTNAME-Assignment6.pdf.

## Exercise 6.7.5 [60 points]

### Project milestones [20 points]

1. Prepare a data analysis plan.
  - What model(s) will you use?
  - How will you fit this model (code)?
  - How will you generate fake data from this model?
  - What model diagnostics will you use?
  - How will you refine the model? Or select from competing models?

## References

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