

Data Analysis Exercises for Chapter 19: *Applied Regression Analysis, Generalized Linear Models, and Related Methods, Second Edition* (Sage, 2007)

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17 January 2008

Exercise D19.1 In Exercises D11.1, D11.2, and D11.3, you used unusual-data diagnostics to check linear models fit to various data sets. Refit these models employing one or more methods of robust regression introduced in this chapter. In each case, compare the robust-regression results to those obtained by least-squares regression, and compare what you learn about the data to what you learned employing the diagnostic methods of Chapter 11.

Exercise D19.2 In Exercises D15.1, D15.2, and D15.3, you used unusual-data diagnostics to check generalized linear models fit to several data sets. Refit these models employing robust generalized linear modelling. In each case, compare the results obtained from the robust fit to those obtained from the traditional maximum-likelihood fit to the data, and compare what you learn about the data to what you learned from unusual-data diagnostics.