Statistics for Astronomers
Homework #8 (Due before 5:00 PM on Tuesday, 2019.05.28)

Prof. Sundar Srinivasan

May 20, 2019

For this problem set, you will do the following exercises from Hogg et al. (2010) and reproduce the corresponding plots in the paper.

1. **6 points** Exercise 1, and reproduce Figure 1.

2. **6 points** Exercise 2, and reproduce Figure 2.

3. **7 points** Exercise 3, and reproduce Figure 3.

4. **6 points** (modified version of Exercise 8) Using bootstrap resampling, compute the uncertainties in the slope and intercept for the data used in Exercise 2 (*i.e.*, for all the points).