Homework 5

DS502/MA543

Your answers will be graded both on your **demonstrated understanding** of the concepts **from the book** and **from the class,** as well as the **clarity of your explanations**.

Please bring the written portion of your answers in **hard copy** to class on Thursday, April 16. Please make sure that both team members names appear on the submission and that every submission is **stand-alone (i.e., does not make the grader read or run your code)**! In addition, for any problem on which you write code, plus submit your code **by email** to the TA Jiani Yin (jianiyin@wpi.edu) **before the start of class** on the due date. You will **not be graded your programming style**, but having access to your code will allow us to more easily give **partial credit**. You are also welcome to use any of the R scripts in the book and/or those I provide in class to help you with the homework assignment. To keep things organized, please send your R files to Jiani using the following naming convention:

<Last name person 1>_<First name person 1>_<Last name person 2>_<First name person 2>_HW5_<question number>.R

For example, if Jiani and Randy were a team, the file containing the code for problem 4 would be named:

Yin_Jiani_Paffenroth_Randy_HW5_4.R

Hint for all of the coding exercises: Be sure to look at the R scripts I demo in class. They should help a lot.

Homework questions

1. (10 points) Section 8.4, Page 332, question 3
2. (15 points) Section 8.4, Page 334, question 9
3. (10 points) Section 9.7, Page 368, question 2
4. (20 points) Section 9.7, Page 369, question 4 (Open ended question)
5. (15 points) Section 9.7, Page 369-370, question 5 (A bit harder than normal)
6. (10) Section 10.7, Page 414-415, question 4
7. (20) Section 10.7, Page 417, question 10