STA 542 – Homework 9

Due: Wednesday, November 18, at the start of class

Credit. This homework is graded for a substantive, good-faith attempt. Address every assigned part and show the reasoning behind each answer. Correct answers without supporting work do not constitute a substantive attempt.

Submission. Submit one ordered PDF. Mathematical and statistical reasoning must be written legibly by hand; tablet handwriting is welcome. R code, numerical output, tables, and plots may be printed or inserted and appended. Simple code or plots may instead be sketched when exact output is unnecessary. Label every computational exhibit, refer to it in the handwritten response, and explain what it shows.

Problems

Problem 1. Complete Exercise 14.3(a)–(c), *Dependence left in the squares*, from Workbook 14.

Problem 2. Complete Exercise 15.1(a)–(c), *Can one day reveal persistence?*, from Workbook 15. For part (c), use the R code in the workbook section *Fitting persistence and forecasting a large return.*

Self-assessment. Choose one step from either problem that you are least confident about. Identify the problem and part. In a short paragraph, explain what you can justify so far and give one specific question you would ask a TA about that step.