

Bayesian Statistics
Statistics W640 — Spring 2016

Assignment 2

Reading:

By Friday Feb 12, read Chapters 4–5 of *Bayesian Data Analysis, third edition*; by Gelman et al.

Homework 2:

The following problems from Gelman et al. are due in class on Friday, February 19. Homework can also be submitted to the course mailbox in Room 904 SSW by 6:00pm on Monday, February 22.

1. Chapter 2 Exercise 22.
2. Chapter 3 Exercise 3.
3. Chapter 3 Exercise 7.
4. Chapter 3 Exercise 8.
5. Chapter 3 Exercise 11.
6. Chapter 4 Exercise 1, but use the data and model from Exercise 2.11; that is, assume the prior distribution for θ is uniform on $[0, 100]$ instead of $[0, 1]$, and take the observed data to be $y = (43, 44, 45, 46.5, 47.5)$.