

Homework 12

Due: Wed 04/21/21 @ 11:59pmrutgers.instructure.com/courses/120689

Problem 1. Chapter 8, Exercise 12.**Problem 2.** Chapter 8, Exercise 13.**Note.**

- For both problems, although you're told to ignore nonresponse issues in the analysis, you still need think about how to express the complete data using the familiar notation of x , y_{obs} , y_{mis} , and I . Then, for part (b), discuss in those terms what kind of assumptions you'd be effectively making about households without telephones or did not respond to the phone line questions.
- The data in Tables 8.7 and 8.8 used in these problems are simplified versions of a larger dataset, used as a running example throughout the textbook. To read more about the dataset's background, follow the pointers in the problems to the relevant chapters.
- Treat the two problems as a small, but comprehensive, applied Bayesian analysis project. Exercise good judgment throughout the model construction, fitting, and evaluation steps. Your homework should read like a self-contained report.