

# DATA130004: Homework 4

Due via eLearning at 23:59 on October 23, 2023

1. Rizzo book (1st edition) Exercises 5.12, 5.13, and 5.14.
2. Complete the proof of Proposition 5.3 on page 148 by yourself. Note its similarity and difference from Proposition 5.2. In particular, explain why  $X^*$  and  $Y^*$  from the two-stage experiment have the same distribution as  $X$  and  $Y/k$ , respectively.