

HW 9 Problems

Halloween costumes (hierarchical modeling)

Let $i = 1, \dots, n$ denote the type of costume

Let $j = 1, \dots, n_i$ denote the people wearing costume i

y_{ij} = number of pieces of candy received by person ij

t_{ij} = time spent trick-or-treating by person ij

To do:

Define hierarchical model allowing variability across types

Do Bayes approach

Run MCMC and describe output