In-class exercise: Week 11 stanfit exercise

Names: (signatures only please, printed names will not be counted)

1.) 4.)

2.) 5.)

3.) 6.)

Overview

In this exercise you are given four `stanfit` objects stored in binary R (`.Rdata`) files.

The file names are:

- `week11_stanfit_exercise_p1.Rdata` stanfit file 1
- `week11_stanfit_exercise_p2.Rdata` stanfit file 2
- `week11_stanfit_exercise_p3.Rdata` stanfit file 3
- `week11_stanfit_exercise_p4.Rdata` stanfit file 4

Use the `load()` function with each filename in succession to load the `stanfit` object into the R workspace, and use it to answer the questions below.

If you have included the statement `library(rstan)` you will have the `get_stanmodel()` and `print()` functions available. After you have loaded the stanfit object, use these functions to display the information contained in the `stanfit` object.

Stanfit file 1

1) What type of analysis was performed?

2) What are the names of the parameters in the model?

3) What priors are being used for the parameters?

4) What distribution is being used for the likelihood part of the model?

5) What are the means and 95% confidence intervals for the parameter(s)?

Stanfit file 2

1) What type of analysis was performed?

2) What are the names of the parameters in the model?

3) What priors are being used for the parameters?

4) What distribution is being used for the likelihood part of the model?

5) What are the means and 95% confidence intervals for the parameter(s)?

Stanfit file 3

1) What type of analysis was performed?

2) What are the names of the parameters in the model?

3) What priors are being used for the parameters?

4) What distribution is being used for the likelihood part of the model?

5) What are the means and 95% confidence intervals for the parameter(s)?

Stanfit file 4

1) What type of analysis was performed?

2) What are the names of the parameters in the model?

3) What priors are being used for the parameters?

4) What distribution is being used for the likelihood part of the model?

5) What are the means and 95% confidence intervals for the parameter(s)?