

Final Project Rubric

Loy, Math 315

I will grade your final projects according to the following rubric:

(5) Research question

- Is the research question clearly stated in a way that is easily understood?

(5) Background/significance

- Does the introduction contain the necessary background for the problem and outline why the work is significant/interesting?

(5) Data description

- Is it clear what the data set contains and how the data were obtained?
- Is the data set properly cited?

(15) Model

- Is the model appropriate for the situation?
- Is the model clearly stated? To receive full credit you need mathematical expressions for the priors, likelihood, and posterior distributions.
- Is all mathematical notation used clear?
- Is the model fitting process outlined?
- Is it clear how this model will be used to answer the question?

(10) Computation

- Is the analysis correctly implemented via MCMC?
- Are necessary and sufficient details about the MCMC sampler given?
- Is it clear how MCMC convergence will be assessed?
- Is the analysis reproducible?

(10) Results

- Is the posterior distribution of interest summarized (either graphically or numerically)?
- Is the research question answered using posterior analysis?

(20) Discussion and conclusions

- Do interpretations accompany all statistics, graphics, and tables?
- Are the interpretations entirely correct?
- Are the interpretations clear?
- Do the conclusions drawn follow logically from the results?
- Are potential shortcomings addressed? Or ideas for future work outlined?

(10) Figures and tables

- Are all figures and/or tables properly polished and sized?
- Do all figures and/or tables have informative captions?

(10) Mechanics

- Grammar, spelling, and capitalization
- Proper use of punctuation
- Writing quality

(10) Formatting

- Are the required components/sections included?
- Are section headings obviously distinct from the main text?
- Are appropriate citations included?
- Are citations properly formatted?