

Your title here

Your names here

April 5, 2022

1 Introduction

You should write an introduction. The last paragraph of your introduction should provide an outline for the rest of the paper. C.f. most published papers whose introductions include a sentence like “The rest of this paper is organized as follows” or “Here is a plan for the rest of the paper.”

2 Body of the paper

Depending on your specific choice of project, you should use as many sections as needed. Look to the published literature for guidance on how to organize different sections. For empirical analyses, generally the second section introduces the data and provides some literature review. That is often followed by separate sections describing the models & methods used, empirical results (on simulated and/or real data, as necessary), and a discussion. For methodological and theoretical works, the structure is similar.

There is not one set standard and I encourage you to use whatever organization seems most effective to you.

You should use figures and tables as appropriate. Figure 1 is an example; it shows Rev. Thomas Bayes.

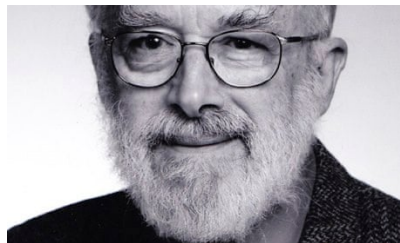


Figure 1: All figures must have a caption *below* the figure

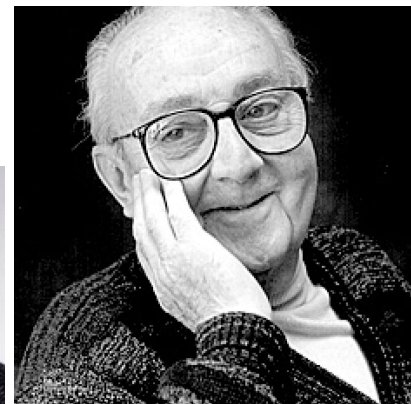
Sometimes you need to include multi-part figures like Figure 2. Figure 2a shows Rev. Thomas Bayes while Figures 2b and 2c show pictures of Dennis Lindley and George E.P. Box, respectively.



(a)



(b)



(c)

Figure 2: Thomas Bayes (a), Dennis Lindley (b), and George E.P. Box (c)

You might find it necessary to include a Table to, e.g., report the results of a comprehensive simulation study. Here is one such example

Table 1: Table captions go above the table. Try to avoid unnecessary vertical lines between columns and horizontal lines between non-terminal rows

Column A	Column B	Column C
1	2	3
4	5	6

3 Discussion

You should conclude your report with a short discussion. Immediately following the discussion should be a list of references. If you do not already use BibTeX and natbib, now is a great time to learn! You should cite any sources using the commands `citet` for inline references and `citep` for parenthetical references. So you would use `citet` to write something like “[Deshpande et al. \(2019\)](#) introduced an EM-like algorithm for simultaneous variable and covariance selection in multi-outcome linear models” and you would use `citep` for a sentence like “Spike-and-slab priors can be effectively deployed to perform simultaneous variable and covariance selection in multi-outcome linear models ([Deshpande et al., 2019](#)).”

You should save your references in a `.bib` file that is located in the same directory as your LaTeX files.

References

Deshpande, S. K., Ročková, V., and George, E. I. (2019). Simultaneous variable and covariance selection with the multivariate spike-and-slab LASSO. *Journal of Computational and Graphical Statistics*, 28(4):921–931.