

# Title

Rebecca C. Steorts<sup>2\*</sup>

<sup>1</sup>Department of Statistical Science  
`{beka}@stat.duke.edu`

**Abstract.** The abstract should contain a summary of the work that you will outline in your paper.

## 1 Introduction

The introduction should contain any prior work related to your proposed project, which is also known as a literature review. You should review the literature that is most related to your proposed work, and be sure to provide citations to the literature.

You can reference a citation using the following commands `Jain and Neal (2004)` and `(Jain and Neal, 2004)`.

The remainder of the paper is as follows. Section 2 provides the methods used in our proposed work. Section 3 reviews the metrics used to evaluation our methods. Section 4 discusses an application on the decennial census, where we present the results in section 5.1. Section 5 provides a simulation study, where we evaluate our proposed methodology on it in section 5.1. Section 6 concludes our paper and discusses future work.

## 2 Methods

This section should contain any proposed methods that you use in your analysis. Be sure to reference any citations to the literature if you are utilizing methodology that is not purely your own proposal.

## 3 Evaluation Metrics

This section should contain any evaluation metrics that will be used to evaluate your proposed methods on any real/simulated data sets.

## 4 Applications

This section should contain a real application or case study, evaluating the methodology in section 2.

---

\* This research was partially supported by the Alfred P. Sloan Foundation.

#### 30 4.1 Results on Application

31 This section should contain your results to a real application from the previous  
32 section.

### 33 5 Simulation Study

34 This section should contain a simulation study, evaluating the methodology in  
35 section 2.

#### 36 5.1 Results on Simulation Study

37 This section should contain your results to a simulation study.

### 38 6 Discussion

39 This section should contain a discussion of your proposal, findings, and future  
40 work.

41 **These commands below allow you to build a bibliography automat-**  
42 **ically into your paper and update it. You can use Google scholar and**  
43 **keep track of your bibliography using your .bib file.**

## Bibliography

44

- JAIN, S. and NEAL, R. M. (2004). A Split-Merge Markov chain Monte Carlo  
Procedure for the Dirichlet Process Mixture Model. *Journal of Computational*  
*and Graphical Statistics*, **13** 158–182.

45

46

47

48 **Appendix**

49 This is an optional appendix in case that you run out of space in the  
50 main body of your paper/report for convergence diagnostics, plate  
51 diagrams, or other important supporting materials.