

# Implementation of Bayesian Hierarchical Clustering

Lina Yang, Xiaodi Qin

April 23, 2017

## 1 Abstract

from paper (Heller and Ghahramani, 2005)

## 2 Background

## 3 Algorithm

## 4 Optimization

## 5 Application

### 5.1 Simulated data sets

### 5.2 Real data sets

## 6 Comparative analysis

## 7 Discussion

## 8 Code

## 9 References

Heller, K. A. and Z. Ghahramani (2005). Bayesian Hierarchical Clustering. In *Proceedings of the 22Nd International Conference on Machine Learning, ICML '05*, New York, NY, USA, pp. 297–304. ACM.