

Bayesian Analysis for Natural Language Processing

Lecture 4

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Administrativa

- ▶ Today: Joe will discuss a paper, and Yu too, if we have enough time
- ▶ Next week: Kyle and Kevin (papers are now online)
- ▶ As usual, send questions and comments to Kyle and Kevin (cc me) by Saturday 10pm

Today's agenda: variational inference

- ▶ Overview of EM
- ▶ Variational inference (with an example derivation for the Dirichlet-multinomial family)
- ▶ Variational EM

This class is going to be quite tedious in details, so stay focused and ask questions if there are any.