... about me

- Research Faculty in Computer Science
- In machine learning, research on theory and applications of topic modeling
- Been on leave in Australia for 2009/2010 (at UniMelb and NICTA)
- Funded by: Google, NSF, NIH, IARPA, etc. ... all projects involve text mining, topic modeling, etc.
... why I am here

- Looking for student to work on an exciting new project
- Modeling of text document collections
- Involves machine learning and web programming
- Runs through Dec 2011
- Possibility/probability of support
Topic modeling can predict flow of ideas through different collections

**Topic Model:**
- Automatically learns set of topics for any collection of documents
- Labels each document with a few topics
- Provides a way to relate documents from different collections
- Can predict flow of ideas
Graphical Models (e.g. LDA or Topic Model)

Flat-LDA

Prior-LDA

Dependency-LDA
Research opportunity

- NSF project on research portfolio analysis and research portfolio modeling
- Develop new graphical models for cross-corpus analysis
- Develop ideas to model/measure/predict impact of funding
Requirements

- Good grades
- Interest in project
- Experience in machine learning
- Experience in Matlab, Perl, Python, C
- Experience in simple web programming (PHP, MySQL, JavaScript)
- Availability now through Dec 2011
- ENTHUSIASM!
If you’re interested ...

• Please email me: newman@uci.edu, include
  • Your grades
  • The name of a professor who knows you
  • A short cv or resume
  • Your programming experience
  • A short statement of why you are interested in working on this project

• www.ics.uci.edu/~newman/opportunity