

Allison June Barlow Chaney

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Research Interests Recommendation systems, visualization, human-computer interaction, and inference on streaming data.

Education

Princeton University
Ph.D. Candidate, Computer Science January 2014 – Present
Advisor: David M. Blei
M.A., Computer Science January 2014

Swarthmore College
B.A., Computer Science and B.S., Engineering 2004 – 2008

Experience

Teaching Assistant, Princeton University
Interacting with Data (COS424): Developed & graded assignments, held office hours. Spring 2014
Intro to Computer Science (COS126): Taught 4 hours of precept per week. Spring 2013

Research Intern, Microsoft Research Summer 2013
Mentor: Jake Hofman.
Explored Nielsen TV panel data for group recommendation.

Research Intern, eBay/Hunch Summer 2012
Explored personalized recommendation based on recent user context.

Research Assistant, Princeton University
Developed a tool for browsing the output of topic models. Sept. 2010 – July 2011
Graduate student research; see publications below. July 2011 – Present

Software Engineer, Yorba Foundation July 2009 – July 2010
Worked on Shotwell, an open-source photo organizer and editor.

Technical Director Resident, Pixar Animation Studios July 2008 – July 2009
Prepared material from past productions for Disney themepark attractions.

Technical Skills

Operating Systems: Linux, Mac OS, Windows

Programming Languages: Python, R, C/C++, Bash, SQL, CSS/HTML, Java, Javascript

Misc: LaTeX, SVN, Git, Inkscape, GIMP

Additional Skills

Languages: English Fluency, Conversational Spanish

Hobbies: Painting, drawing, gardening, knitting & crocheting, cooking, guitar, and lots of reading.

Publications

Real-time Topic Models for Crisis Counseling. KDD Workshop: Data Science for Social Good, 2014.
A. Chaney, K. Dinakar, H. Lieberman, and D. Blei.

Poisson Trust Factorization for Incorporating Social Networks into Personalized Item Recommendation. NIPS Workshop: What Difference Does Personalization Make?, 2013.
A. Chaney, P. Gopalan, and D. Blei.

A Large-scale Exploration of Group Viewing Patterns. TVX, 2014.
Mining Large-scale TV Group Viewing Patterns for Group Recommendation. Tech Report, 2013.
A. Chaney, M. Gartrell, J. Hofman, J. Guiver, N. Koenigstein, P. Kohli, and U. Paquet.

Visualizing topic models. International AAAI Conference on Social Media and Weblogs, 2012.
A. Chaney and D. Blei.

Volunteer

Employment Specialist, Princeton LDS Spanish-Speaking Congregation May 2014 – Present
Teach regular employment workshops, provide individual career counseling.

Youth Leader, Princeton LDS English-Speaking Congregation January 2013 – Present
Mentor, teach, and tutor teenage girls. Ranges from helping with homework to planning pool parties.