

ARI KOBREN

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EDUCATION

University of Massachusetts Amherst, Amherst, MA

Sept. 2012 - Present

M.S./Ph.D. in Computer Science

Tufts University, Medford, MA

Sept. 2006 - May 2010

Bachelor of Science, Computer Science Engineering

Summa Cum Laude, Dean's List all semesters, GPA: 3.78/4.0

HONORS & AWARDS

NSF Graduate Research Fellowship, for graduate study in STEM fields, March 2012

Paul Utgoff Memorial Scholarship, for 1 student in machine learning, May 2012

EXPERIENCE

University of Massachusetts Amherst

Sept. 2012 - Present

Research Assistant, Information Extraction and Synthesis Laboratory

Amherst, MA

- Investigate machine learning and crowdsourcing techniques for automated knowledge base construction and curation under supervision of Prof. Andrew McCallum
- Mentor master's and undergraduate students regarding research projects

Google Inc.

June 2014 - Sept. 2014

Ph.D. Research Intern

Mountain View, CA

- Improved user retention in the Quizz.us crowdsourcing platform by more than 70%
- Developed machine learning models of user interaction with the system
- Contributed significant code to a public facing project

MIT Lincoln Laboratory

Sept. 2010 - Sept. 2012

Researcher

Lexington, MA

- Developed natural language processing tools to support US intelligence analysts
- Obtained United States security clearance (Secret-Level)

FindJoey

Sept. 2008 - May 2010

Co-Founder, Developer, CTO

Medford, MA

- Co-founded company providing service for users to receive departure times for campus shuttle via SMS
- Co-developed underlying software/technology
- Achieved over 250,000 uses by more than 5000 unique users between 2008-2012

Tufts Computer Science Dept.

Sept. 2009 - Dec. 2009

Teaching Assistant

Medford, MA

- Course: Machine Structure & Assembly-Level Programming

Tufts Computer Science Dept.

Feb. 2009 - Sept. 2009

Researcher

Medford, MA

- Developed modifications of Bloom Filters for Bayesian Classifier (<http://osbf-lua.luaforge.net>)

PUBLICATIONS

- [1] Michael L. Wick, Ari Kobren, and Andrew McCallum. Large-scale author coreference via hierarchical entity representations. In *ICML Workshop: Peer Reviewing and Publishing Models (PEER)*, Atlanta, Georgia, USA, Jun 2013.
- [2] Michael L. Wick, Sameer Singh, Ari Kobren, and Andrew McCallum. Assessing confidence of knowledge base content with an experimental study in entity resolution. In *CIKM Workshop on Automated Knowledge Base Construction (AKBC)*, San Francisco, California, USA, October 2013. **(Selected for oral presentation)**.
- [3] Michael L. Wick, Ari Kobren, and Andrew McCallum. Probabilistic reasoning about human edits in information integration. In *ICML Workshop: Machine Learning Meets Crowdsourcing*, Atlanta, Georgia, USA, Jun 2013.
- [4] Sameer Singh, Limin Yao, David Belanger, Ari Kobren, Sam Anzaroot, Michael Wick, Alexandre Passos, Harshal Pandya, Jinho Choi, Brian Martin, and Andrew McCallum. Slot filling by kb construction and universal schema. In *Text Analysis Conference on Knowledge Base Population*, Gaithersburg, Maryland, USA, October 2013.
- [5] Ari Kobren, Thomas Logan, Siddarth Sampangi, and Andrew McCallum. Domain specific knowledge base construction via crowdsourcing. In *Advances in Neural Information Processing Systems Workshop: Automated Knowledge Base Construction*, Montreal, Canada, Dec 2014. **(Outstanding Paper Award, Selected for oral presentation)**.
- [6] Ari Kobren, Chun How Tan, Panos Ipeirotis, and Evgeniy Gabrilovich. Getting more for less: Optimized crowdsourcing with dynamic tasks and goals. In *Proceedings of the 24th International Conference on the World Wide Web*, Florence, Italy, May 2015.