

Curriculum Vitae

Name: Kedar Bellare

Date of Birth: 04 October, 1982

Residential Address:

1040 N. Pleasant St., #367,
Amherst, MA 01002, USA

Office Address:

Department of Computer Science,
140 Governors' Drive,
University of Massachusetts,
Amherst MA 01003, USA

Phone number:

(413)-265-0343 (cell)
(413)-545-3616 (office)

E-mail:

kedar.bellare@gmail.com
kedarb@cs.umass.edu

Current VISA Status: M.S/Ph.D. student of F1 visa (2004-Present)

Background:

- Education:
 - M.S. (Master of Science) from University of Massachusetts, Amherst. (*February 2008*).
 - B.Tech (Bachelor of Technology) from IIT Bombay in Computer Science and Engineering. (*August 2004*).
- Honors and Achievements:
 - Was Ranked *81st* in the Joint Entrance Examination (JEE) for entrance into IITs (among 120,000 students).
 - Was among the *top 30* in the state engineering entrance exam CET for entrance into Regional Engineering Colleges (RECs).
 - Was among the *top 100* in the country (India) for entering into Physics and Chemistry Olympiads.

Advisor/Group: Prof. Andrew McCallum/Information Extraction and Synthesis Lab (IESL)

- RA positions: Sept. 2004-Present in IESL lab.

- TA positions: Computational Social Network Analysis (Taught by David Jensen and Andrew McCallum in Fall '08).

Research:

- Refereed Publications:
 - Kedar Bellare and Andrew McCallum. *Generalized Expectation Criteria for Bootstrapping Extractors using Record-Text Alignment*. Empirical Methods in NLP (EMNLP) 2009, Singapore (EMNLP'09), 2009.
 - Kedar Bellare, Gregory Druck and Andrew McCallum. *Alternating Projections for Learning with Expectation Constraints*. Uncertainty in Artificial Intelligence (UAI) 2009, Montreal, QC, Canada (UAI'09), 2009.
 - Kedar Bellare, Koby Crammer and Dayne Freitag. *Loss-Sensitive Discriminative Training of Machine Transliteration Models*. Student Research Workshop at HLT-NAACL 2009, Boulder, CO, USA (HLT-NAACL SRW'09), 2009.
 - Kedar Bellare, Partha Pratim Talukdar, Giridhar Kumaran, Fernando Pereira, Mark Liberman, Andrew McCallum and Mark Dredze. *Lightly-Supervised Attribute Extraction for Web Search*. NIPS workshop on Machine Learning for Web Search at NIPS 2007, Vancouver, BC, Canada (NIPS MLWS'07), 2007.
 - Kedar Bellare and Andrew McCallum. *Learning Extractors from Unlabeled Text using Relevant Databases*. IIWeb workshop at AAI 2007, Vancouver, BC, Canada (IIWeb'07), 2007.
 - Kuzman Ganchev, Koby Crammer, Fernando Pereira, Gideon Mann, Kedar Bellare, Andrew McCallum, Steve Carroll, Yang Jin, and Pete White. *Penn/Umass/CHOP BiocreativeII Systems*. Proceedings of the Biocreative II Workshop, pp. 119 - 124, 2007.
 - Andrew McCallum, Kedar Bellare and Fernando Pereira. *A Conditional Random Field for Discriminatively-trained Finite-state String Edit Distance*. Proceedings of the International Conference on Uncertainty in AI (UAI'05), 2005.
 - Kedar Bellare, Anish Das Sarma, Atish Das Sarma, Navneet Loiwal, Vaibhav Mehta, Ganesh Ramakrishnan, Pushpak Bhattacharya. *Generic Text Summarization Using Word-Net*. Proceedings of the International Conference on Language Resources and Evaluation (LREC'04), 2004.
- Unrefereed Publications: None.
- Publications in Progress:
 - Kedar Bellare and Andrew McCallum. *Fixing and Augmenting Noisy Databases using Large-Scale Text Corpora*. Work in progress.
 - Kedar Bellare, Ashwin Machanavajjhala and Sathiya Keerthi. *JUNRLIE: Joint Unsupervised Record Linkage and Information Extraction*. Work in progress.
- Unpublished Documents: None.

Skills:

- **Programming:** Scala, Java, Perl, Python, Scheme, HTML/CSS/Javascript, JSP with some knowledge of C.

Experience:

- **Yahoo! Research.**

Summer Intern under Sathiya Keerthi and Ashwin Machanavajjhala.

Summer 2009.

Worked on a Bayesian network model for performing joint unsupervised information extraction and record linkage.

- **Yahoo! Research.**

Summer Intern under Sathiya Keerthi and Srujana Merugu.

Summer 2008.

Worked on rapid development of classifiers using labeling of instances and features. Also studied active learning using instance/feature labeling.

- **FairIsaac Corporation.**

Summer Intern under Dayne Freitag.

Summer 2007.

Worked on applying on-line machine learning algorithms to sequence/tree edit distance problems.

- **University of Pennsylvania.**

Fall Intern under Prof. Mark Liberman and Prof. Fernando Pereira.

Fall 2006.

Worked on the problem of lightly-supervised attribute extraction.

- **University of Massachusetts, Amherst.**

Research Assistant under Prof. Andrew McCallum.

Sept 2004 - Present.

Working on problems related to information extraction that employ discriminative alignment techniques.

- **University of British Columbia.**

Summer Intern under Prof. Laks Lakshmanan and Prof. Raymond Ng.

May - July 2003.

Worked on algorithms for schema integration of disparate XML databases.

Service:

- Professional:

- Reviewed conference papers submitted to NIPS'06, HLT-NAACL'07, ACL'07, KDD '07, IIWeb '07, ICML'08, ICML '09, UAI '09, KDD '09, EMNLP '09, ICML '10.

- Reviewed journal paper for the Special Issue of Applied AI on applications of Grammatical Inference.

- Reviewed journal paper for Transactions on Database Systems (TODS).

- Laboratory:

- Helped in the creation of the UI for the Rexa search engine, a research paper search engine developed by our lab (IESL).

Curriculum:

- Core Coursework:

Area	Course	Semester	Grade
Systems:	Modern Computer Architecture	4	B+
	Database Design and Implementation	4	A-
Theory:	Theory of Computation	2	A-
	Advanced Algorithms	3	A
AI:	Machine Learning	1	A
	Reasoning and Acting under Uncertainty	1	A

- Additional Coursework:

- Advanced Machine Learning: Grade A
- Seminar on Sensor Network Processing: Grade A
- Empirical Methods in Computer Science: Grade A-
- Bioinformatics: Grade A

References:

- **Andrew McCallum (Advisor)**
Department of Computer Science
University of Massachusetts Amherst
140 Governors Drive
Amherst, MA 01003
E-mail: mccallum@cs.umass.edu
Phone: +1-413-545-1323
- **Sathiya Keerthi**
Yahoo! Research,
Santa Clara, CA
E-mail: selvarak@yahoo-inc.com
- **Srujana Merugu**
Yahoo! Research,
Santa Clara, CA
E-mail: srujana@yahoo-inc.com
- **Dayne Freitag**
FairIsaac Corporation,

San Diego, CA
E-mail: DayneFreitag@fairisaac.com

- **Fernando Pereira**

Department of Computer and Information Science
University of Pennsylvania
Philadelphia, PA
E-mail: pereira@cis.upenn.edu

- **Pushpak Bhattacharya**

Department of Computer Science and Engineering
Indian Institute of Technology, Bombay
Mumbai-400 076, India
E-mail: pb@cse.iitb.ac.in
Phone: +91-22-576-4729