

Dan Garrette

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EDUCATION

The University of Texas at Austin, Austin, TX

Ph.D., Computer Science

(expected) Aug 2009 - Apr 2015

M.S., Computer Science

Aug 2009 - Dec 2011

Advisors: Jason Baldridge and Raymond Mooney

Illinois Wesleyan University, Bloomington, IL

B.S., Computer Science, *with Research Honors*

Aug 2003 - Apr 2006

Minor: Cognitive Science

(completed in 3 years)

PUBLICATIONS

- [1] [Dan Garrette](#), Hannah Alpert-Abrams, Taylor Berg-Kirkpatrick, and Dan Klein. “Unsupervised Code-Switching for Multilingual Historical Document Transcription”. In *Proc. of NAACL 2015*.
- [2] [Dan Garrette](#), Chris Dyer, Jason Baldridge, and Noah A. Smith. “Weakly-Supervised Grammar-Informed Bayesian CCG Parser Learning”. In *Proc. of AAAI 2015*.
- [3] [Dan Garrette](#), Chris Dyer, Jason Baldridge, and Noah A. Smith. “Weakly-Supervised Bayesian Learning of a CCG Supertagger”. In *Proc. of CoNLL 2014*.
- [4] [Dan Garrette](#), Jason Mielens, and Jason Baldridge. “Real-World Semi-Supervised Learning of POS-Taggers for Low-Resource Languages”. In *Proc. of ACL 2013*.
- [5] [Dan Garrette](#) and Jason Baldridge. “Learning a Part-of-Speech Tagger from Two Hours of Annotation”. In *Proc. of NAACL 2013*.
★ **Best Talk Award** Finalist
- [6] [Dan Garrette](#), Katrin Erk, and Raymond Mooney. “A Formal Approach to Linking Logical Form and Vector-Space Lexical Semantics”. In: Harry Bunt, Johan Bos, and Stephen Pulman (eds) *Computing Meaning, Vol. 4*, 2013.
- [7] Islam Beltagy, Cuong Chau, Gemma Boleda, [Dan Garrette](#), Katrin Erk, and Raymond Mooney. “Montague Meets Markov: Deep Semantics with Probabilistic Logical Form”. In *Proc. of *SEM 2013*.
- [8] [Dan Garrette](#) and Jason Baldridge. “Type-Supervised Hidden Markov Models for Part-of-Speech Tagging with Incomplete Tag Dictionaries”. In *Proc. of EMNLP 2012*.
- [9] [Dan Garrette](#), Katrin Erk, and Raymond Mooney. “Integrating Logical Representations with Probabilistic Information using Markov Logic”. In *Proc. of the Ninth International Conference on Computational Semantics*, 2011.
- [10] [Dan Garrette](#) and Ewan Klein. “An Extensible Toolkit for Computational Semantics”. In *Proc. of the Eighth International Conference on Computational Semantics*, 2009.

SELECTED RESEARCH EXPERIENCE

The University of Washington

Post-Doctoral Research Associate. Supervisor: Luke Zettlemoyer

May 2015 - Present

· Semi-supervised/low-resource learning for NLP, and the intersections of syntax and semantics.

The University of Texas at Austin

Research Assistant. Supervisor: Jason Baldridge

Aug 2011 - May 2015

· Bayesian models of CCG parser induction from varieties of weak supervision.

Research Assistant. Supervisors: Katrin Erk and Ray Mooney

Aug 2009 - Aug 2011

· Unifying logical and distributional semantics for natural language representation and inference.

Google

Intern. Supervisors: Jiwoon Jeon and Hang Cui May 2013 - Aug 2013
· Machine learning and natural language processing research related to Google News.

The University of Maryland Institute for Advanced Computer Studies

Research Assistant. Supervisor: Philip Resnik May 2012 - Aug 2012
· Bayesian models of syntactic framing in political writing.

INVITED TALKS

Carnegie Mellon University. "Learning CCGs from Weak Supervision". 2014.

University of Washington. "Learning CCGs from Weak Supervision". 2015.

SELECTED TEACHING EXPERIENCE

The University of Texas at Austin

Instructor, Natural Language Processing (CS 378 / LIN 353N) Fall 2013
· Upper-division undergraduate Computer Science and Linguistics course
· <http://www.dhgarrette.com/nlpclass/>

Undergraduate Research Advising

Kelsey Taylor Ball 2014 - 2015

Brianna Connelly 2014

Matthew Ebeweber 2014

The United States Peace Corps

Volunteer, Ghana, West Africa Jun 2006 - Feb 2007
· Taught math and English in an underperforming rural junior secondary school.
· Worked with staff members to develop their teaching techniques and avoid corporal punishment.
· Planned and performed HIV/AIDS presentations in rural communities and schools.

Illinois Wesleyan University

Teaching Assistant Aug 2004 - Apr 2006
· Courses on algorithms (in C and Haskell), abstract data structures (in C), and architecture.

HONORS AND AWARDS

Graduate

Best Talk Award Finalist, NAACL 2013

National Defense Science and Engineering Graduate Fellowship (NDSEG) - 2010-2013. Approx \$155,000

Student Travel Grant, EMNLP, 2012. \$800

Student Travel Grant, CoNLL, 2014. \$500

Undergraduate

Alumni Academic Scholarship

Jennings Music Scholarship

Upsilon Phi Epsilon - Computer Science Honor Society

Dean's List - 6 of 6 semesters

ACADEMIC SERVICE

Conference reviewing: EMNLP (2014, 2013), EACL (2014), COLING (2014), IWCS (2015, 2013),
ACL (2012), Texas Linguistic Society (2012)

Journal reviewing: Computational Linguistics (3), Language Resources and Evaluation (1)

Conference website developer/maintainer: IWCS-2013

SELECTED OPEN SOURCE PROJECTS

Numerous projects at <http://github.com/dhgarrette>

Natural Language Toolkit (NLTK) – <http://www.nltk.org/>

- Toolkit for natural language processing in Python

Feb 2007 - Present
Committer since Jun 2007

Spring Batch – <http://static.springsource.org/spring-batch/>

- Application framework for batch processing in Java

Oct 2008 - Sep 2009
Committer since Jan 2009

OTHER WRITING

Some thoughts on the relationship between computational linguistics and literary scholarship

Hannah Alpert-Abrams with Dan Garrette

Language Log, Sept 12, 2013

PROGRAMMING LANGUAGES

Skilled: Scala, Python, Java (ordered by frequency of use)

Previous Experience: C, Haskell, MATLAB, Prolog, R, SQL (ordered alphabetically)

OTHER SELECTED PROFESSIONAL EXPERIENCE

Accenture

Consultant

Sep 2008 - Aug 2009

- Served as one of four committers to the open-source Spring Batch framework.
- Assisted Accenture projects as a Subject Matter Expert for Spring Batch.
- Designed Spring Batch training curriculum and led on-site training in the US and India.
- Certified by Accenture as a Technology Architect.

Analyst

May 2007 - Sep 2008

- Developed large-scale applications in Java.
- After just four months, was made a sub-team leader, formally leading a group of developers.
- After 15 months, promoted to Consultant. (Normal requirement is 2 to 3 years).

TransUnion

Intern

Summers 2001-2005

- Fixed errors in the application that interacts with the credit database. Coded in C.

UNIVERSITY ACTIVITIES

Graduate

Organizer of the Natural Language Learning reading group (Aug 2011 - April 2015)

UTCS Admissions Committee – Master's Degree Program (2015)

Undergraduate

John Wesley Powell Student Research Conference - Presenter

Symphonic Winds - Member, Percussion Section Leader for 5 semesters

Civic Orchestra, Opera Orchestra, Titan Band, Percussion Ensemble - Member