

Amber C. Stubbs
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EDUCATION

Brandeis University, Waltham, Massachusetts USA
Ph.D., Computer Science, February 2013
Dissertation: "A Methodology for Using Professional Knowledge in Corpus Annotation"
M.A., Computer Science, May 2008

Simmons College, Boston, Massachusetts USA
B.S., Computer Science and English, May 2005

ACADEMIC APPOINTMENTS

Simmons College **July 2014 - present**
Boston, Massachusetts, USA
School of Library and Information Science
Assistant Professor

Simmons College **September 2013-May 2014**
Boston, Massachusetts, USA
Graduate School of Library and Information Science
Adjunct Professor

State University of New York at Albany **October 2012 - August 2014**
Albany, New York, USA
Department of Information Studies
Postdoctoral Associate

Massachusetts Institute of Technology **October 2012 - present**
Cambridge, Massachusetts, USA
Computer Science and Artificial Intelligence Laboratory
Research Affiliate

Brandeis University **August, 2005 - August, 2012**
Waltham, Massachusetts, USA
Department of Computer Science
Doctoral Student

TEACHING EXPERIENCE

Assistant Professor, Simmons College

- CS 232 - Data Structures and Data Structures Lab (Fall 2014)
- LIS 488 (guest lecturer) Tech. for Information Professionals (Fall 2014)
- LIS 488 - Tech. for Information Professionals (Spring 2015)
- CS 330 - Structure and Organization of Programming Languages (class and lab) (Spring 2015)

Adjunct Professor, Simmons College

- CS 232 - Data Structures and Data Structures Lab (Fall 2013)
- CS 330 - Structure and Organization of Programming Languages (class and lab) (Spring 2014)

Teaching Fellow, Brandeis University

- COSI 216 - Corpus Linguistics and Language Annotation (Spring 2011)
- COSI 11a - Programming in Java and C (Fall 2009, Fall 2008)
- COSI 135b - Computational Semantics (Spring 2009)
- Ling 120b - Syntactic Theory (Spring 2008)
- Ling 100 - Introduction to Linguistics (Fall 2007, Fall 2006)
- COSI 216 - Introduction to Computational Linguistics (Spring 2007)
- COSI 21a - Data Structures and the Fundamentals of Computing (Spring 2006)

HONORS AND AWARDS

Outstanding Teaching Fellow Award, Brandeis University, 2008-2009
Graduated Cum Laude, Simmons College May 2005
Computer Science Award, Simmons College, May 2005

PUBLICATIONS AND PRESENTATIONS

Books

James Pustejovsky and Amber Stubbs. *Natural Language Annotation for Machine Learning*. O'Reilly Media, November 2012.

Peer-Reviewed Book Chapters

Amber Stubbs, Özlem Uzuner, Christopher Kotfila, Ira Goldstein, Peter Szolovits. "Challenges in Synthesizing Surrogate PHI in Narrative EMRs". Chapter in *Medical Data Privacy Handbook*. Aris Gkoulalas-Divanis and Grigorios Loukides, eds. Springer, anticipated publication 2015.

Amber Stubbs and Özlem Uzuner. "Biomedical Annotations: i2b2 de-identification", chapter in *Handbook of Linguistic Annotation*. Nancy Ide and James Pustejovsky, eds. Springer, anticipated publication 2015.

Anna Rumshisky and Amber Stubbs. "Machine Learning for Higher-Level Linguistic Tasks", chapter in *Handbook of Linguistic Annotation*. Nancy Ide and James Pustejovsky, eds. Springer, anticipated publication in 2015.

Peer-Reviewed Journal Articles

Amber Stubbs, Christopher Kotfila, and Ozlem Uzuner. "Automated systems for the de-identification of longitudinal clinical narratives: Overview of 2014 i2b2/UTHealth shared task Track 1." *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. Expected publication 2015

Amber Stubbs and Özlem Uzuner. "Annotating Risk Factors for Heart Disease in Clinical Narratives for Diabetic Patients". *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. Expected publication 2015

Amber Stubbs, Christopher Kotfila, Hua Xu, and Özlem Uzuner. "Identifying risk factors for heart disease over time: Overview of 2014 i2b2/UTHealth shared task Track 2." *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. Expected publication 2015

Kai Zheng, V.G.Vinod Vydiswaran, Yang Liu, Yue Wang, Amber Stubbs, Ozlem Uzuner, Anupama E. Gururaj, Samuel Bayer, John Aberdeen, Anna Rumshisky, Serguei Pakhomov, Hongfang Liu, Hua

Xu. "Ease of Adoption of Clinical Natural Language Processing Software: An Evaluation of Five Systems." *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. Expected publication 2015

Peer-Reviewed Conference Presentations

Amber Stubbs. "Developing Specifications for Light Annotation Tasks in the Biomedical Domain." In *2012 Proceedings of the Third Workshop on Building and Evaluating Resources for Biomedical Text Mining*, Istanbul, Turkey, May 26, 2012.

James Pustejovsky and Amber Stubbs. "Increasing Informativeness in Temporal Annotation." In *2011 Proceedings of the Linguistic Annotation Workshop V*, Association of Computational Linguistics, Portland, Oregon, July 23-24, 2011.

Marc Verhagen, Amber Stubbs, and James Pustejovsky. "Combining Independent Syntactic and Semantic Annotation Schemes." In *Proceedings of the Linguistic Annotation Workshop*, ACL, Prague, Czech Republic. June, 2007.

Peer-Reviewed Poster Presentations

Amber Stubbs. "MAE and MAI: Lightweight Annotation and Adjudication Tools". In *2011 Proceedings of the Linguistic Annotation Workshop V*, Association of Computational Linguistics, Portland, Oregon, July 23-24, 2011.

Amber Stubbs and James Pustejovsky. "Annotation of Discharge Summaries Based on Selection Criteria." In *2011 Proceedings of AMIA Summit on Clinical Research Informatics*, San Francisco, March 9-11, 2011.

Amber Stubbs and Benjamin Harshfield. "Applying the TARSQI toolkit to augment text mining of EHRs." *BioNLP '10: Proceedings of the 2010 Workshop on Biomedical Natural Language Processing*. July 2010.

Editorials

Ozlem Uzuner, Amber Stubbs, and Weiyi Sun "Chronology of your health events: Approaches to extracting temporal relations from medical narratives." *Journal of Biomedical Informatics*, Vol. 46, December 2013.

Tutorials

Ozlem Uzuner, Meliha Yetisgen and Amber Stubbs. "Biomedical/clinical NLP". *International Conference on Computational Linguistics (COLING)*. Dublin, Ireland. August 23rd, 2014

Online Presentations and Invited Talks

Cathryn Mercier, Luaura Saunders, Amber Stubbs, Kathy Wisser. "School of Library and Information Science Faculty Research: A Catalyst for Community Change". *Graduate Alumnae/I Professional Day*, Simmons College, March 21, 2015.

Amber Stubbs. "Annotating Heart Disease Risk Factors in Longitudinal Clinical Narratives". *Brandeis Language Technologies Seminar Series*, Brandeis University, March 6, 2015.

Amber Stubbs. "PC, MD? Can computers learn to diagnose medical problems?" *Lunchtime Lecture Series*, School of Library and Information Science, Simmons College, October 28, 2014.

Amber Stubbs. “Innovation Series Lunch and Learn Computers and Coding: Whats it all about” Earl Center, Wheelock College, April 23, 2014.

James Pustejovsky and Amber Stubbs “How to Develop Language Annotations for Machine Learning Algorithms.” O’Reilly Webcast, October 16, 2012.

<http://www.oreillynet.com/pub/e/2361>.

Amber Stubbs. “An Introduction to Corpus Linguistics.” New Media Consortium (NMC) Horizon Connect webinar series, December 15, 2011.

<http://itunes.apple.com/itunes-u/nmc-horizon-connect-learning/id489707147>

Works in Progress

Amber Stubbs and Özlem Uzuner. “Annotating longitudinal clinical narratives for de-identification” Journal of Biomedical Informatics, supplement on the 2014 i2b2 NLP shared task. Under revision.

Vishesh Kumar, Amber Stubbs, Ozlem Uzuner and Stanley Shaw. “Construction of a Biomedical Corpus”. In preparation.

PROFESSIONAL AFFILIATIONS AND SERVICE

Guest Editor

Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data. In progress.

Journal of Biomedical Informatics Volume 46, Supplement: 2012 i2b2 Natural Language Processing Challenge on Temporal Relations in Clinical Data. December 2013.

Workshop Co-Chair

7th i2b2 Shared-Task and Workshop on Challenges in Natural Language Processing for Clinical Data. Washington D.C., November 14 2014.

Reviewer

Language Resources and Evaluations. May 2015 - present.

BMC Bioinformatics. June 2014 - present.

Journal of Biomedical Informatics. February 2013 - present.

Workshop on Text Mining for Translational Informatics 2014. September 2014.

Student proposals, IBM/IEEE Smarter Planet Challenge. 2013, 2014.

Conference papers, 6th i2b2 Shared-Task and Workshop on Challenges in Natural Language Processing for Clinical Data. Temporal relations. November 2012.

Conference papers, Linguistic Annotation Workshop V. June 2011.

Committees and academic service

STEM working group at Simmons College (June 2015 - present)

Committee for creating Data Science and Analytics B.S. and M.S. program at Simmons (March 2014 - present)

Information Science & Technology committee at SLIS (July 2014 - present)

SLIS doctoral committee (August 2014 - present)

Computer Science Department (July 2014 - present)

Hiring committee for Student Services Coordinator at SLIS (August 2014 - September 2014)

Community Outreach

Teacher and volunteer, Girl Develop It, Boston chapter 2013 - 2015
<http://www.girldevelopit.com/chapters/boston>

Local organizer, North American Computational Linguistics Olympiad, Boston area 2006, 2007
<http://namclo.linguistlist.org/index.cfm>

Professional Memberships

Association for Computational Linguistics
Association for Information Science and Technology
Institute of Electrical and Electronics Engineers
Association for Computing Machinery

OPEN SOURCE SOFTWARE

MAE: Multi-purpose Annotation Environment
Available: <http://code.google.com/p/mae-annotation/>

MAI: Multi-document Adjudication Interface
Available: <http://code.google.com/p/mai-adjudication/>