

Amber C. Stubbs<http://amberstubbs.net>amber.stubbs@simmons.edu

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 Boston, Massachusetts, USA School of Library and Information Science Assistant Professor	July 2014 - present
	Simmons College Boston, Massachusetts, USA Graduate School of Library and Information Science Adjunct Professor	September 2013-May 2014
	State University of New York at Albany Albany, New York, USA Department of Information Studies Postdoctoral Associate	October 2012 - August 2014
	Massachusetts Institute of Technology Cambridge, Massachusetts, USA Computer Science and Artificial Intelligence Laboratory Research Affiliate	October 2012 - present
	Brandeis University Waltham, Massachusetts, USA Department of Computer Science Doctoral Student	August, 2005 - August, 2012
TEACHING EXPERIENCE	Adjunct/Assistant Professor , Simmons College <ul style="list-style-type: none"> • CS 110 - Foundations of Information Technology (designed and developed) • CS 232 - Data Structures and Data Structures Lab • CS 330 - Structure and Organization of Programming Languages (class and lab) • LIS 469 - eXtensible Markup Language • LIS 488 - Tech. for Information Professionals Teaching Fellow , Brandeis University <ul style="list-style-type: none"> • 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)

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, November 2015. doi:10.1007/978-3-319-23633-9

Amber Stubbs and Özlem Uzuner. "Biomedical Annotations: i2b2 de-identification", chapter in *Handbook of Linguistic Annotation*. Nancy Ide and James Pustejovsky, eds. Springer, 2017. doi:10.1007/978-94-024-0881-2

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, 2017. doi:10.1007/978-94-024-0881-2

Peer-Reviewed Journal Articles

Amber Stubbs, Michele Filannino, Özlem Uzuner. "De-identification of psychiatric intake records: Overview of 2016 CEGS N-GRID Shared Tasks Track 1." *Journal of Biomedical Informatics, Supplement: 2016 CEGS/N-GRID (2017)*. Natural Language Processing Challenge in Clinical Data. Accepted.

Michele Filannino, Amber Stubbs, Özlem Uzuner. "Symptom severity prediction from neuropsychiatric clinical records: Overview of 2016 CEGS N-GRID Shared Tasks Track 2." *Journal of Biomedical Informatics, Supplement: 2016 CEGS/N-GRID (2017)*. Natural Language Processing Challenge in Clinical Data. Accepted.

Amber Stubbs, Özlem Uzuner. "Annotating longitudinal clinical narratives for de-identification: The 2014 i2b2/UTHealth corpus." *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. 2015. doi:10.1016/j.jbi.2015.07.020

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*. 2015. doi:10.1016/j.jbi.2015.05.009

Amber Stubbs, Christopher Kotfila, and Özlem 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*. 2015. doi:10.1016/j.jbi.2015.06.007

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*. 2015. doi:10.1016/j.jbi.2015.07.001

Vishesh Kumar, Amber Stubbs, Stanley Shaw, Özlem Uzuner. “Creation of a new longitudinal corpus of clinical narratives.” *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. 2015. doi:10.1016/j.jbi.2015.09.018

Kai Zheng, V.G.Vinod Vydiswaran, Yang Liu, Yue Wang, Amber Stubbs, Özlem 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*. 2015. doi:10.1016/j.jbi.2015.07.008

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

Rebecca Haralson, Katherine Sittig-Boyd, Stephanie Worobey, Amber Stubbs. “Analyzing Health Data in Longitudinal Clinical Narratives.” *TAPIA 2016*.

Jennifer A. Roecklein-Canfield, Deborah Tobiason, Margaret Menzin, Mark Mahoney, Nanette Veilleux, and Amber Stubbs. “Using Synthetic Biology to teach undergraduates the cross-disciplinary and collaborative nature of scientific research.” *2015 American Society for Cell Biology (ASCB) Annual Meeting in San Diego, CA, December 12-16, 2015*.

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.

Other Presentations

Amal Saeed and Jazzmine White. (Amber Stubbs, advisor) “Identifying and Analyzing Security Vulnerabilities in Brain-Computer Interfaces (BCIs)” Keynote presentation in “From Poetry to

Pipettes: The Simmons Undergraduate Symposium". April 25, 2017

Emma Ambrosini, Karina Bercan, et al. "SQL Board game." Poster presentation in "From Poetry to Pipettes: The Simmons Undergraduate Symposium". April 25, 2017

Shayla Fitzpatrick, Elizabeth Johnson, Hannah Reading, Amber Stubbs. "Analyzing Trends in Young Adult Book Covers." Poster presentation in "From Poetry to Pipettes: The Simmons Undergraduate Symposium". April 27, 2016

Rebecca Haralson, Katherine Sittig-Boyd, Stephanie Worobey, Amber Stubbs. "Analyzing Health Data in Longitudinal Clinical Narratives". Poster presentation in "From Poetry to Pipettes: The Simmons Undergraduate Symposium". April 27, 2016

Editorials

Özlem Uzuner and Amber Stubbs. "Practical Applications for Natural Language Processing in Clinical Research: The 2014 i2b2/UTHealth Shared Tasks." *Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data*. Forthcoming, 2015.

Özlem 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

Özlem 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>

GRANTS
AND
AWARDS

Simmons School of Library and Information Science Dole award, July 2016-June 2017. \$3,000

Computing Research Association for Women (CRA-W) Collaborative Research Experience for Undergraduates (CREU) “Identifying and Analyzing Security Vulnerabilities in Brain-Computer Interfaces (BCIs)”, September 2016 - May 2017. \$7,500

Computing Research Association for Women (CRA-W) Collaborative Research Experience for Undergraduates (CREU) “Analyzing Health Data in Longitudinal Clinical Narratives”, September 2015 - May 2016. \$10,500.00

PROFESSIONAL
AFFILIATIONS
AND SERVICE

Guest Editor Journal of Biomedical Informatics, Supplement: 2016 i2b2 Natural Language Processing Challenge in Clinical Data. In progress, anticipated December 2017.

Journal of Biomedical Informatics, Supplement: 2014 i2b2 Natural Language Processing Challenge in Clinical Data. December 2015.

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

Workshop Co-Chair 2016 CEGS N-GRID Shared-Tasks and Workshop on Challenges in Natural Language Processing for Clinical Data. Chicago, IL., November 11 2016.

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

Reviewer - Journals

Journal of the American Medical Informatics Association. October 2015 - present.

Language Resources and Evaluations. May 2015 - present.

BMC Bioinformatics. June 2014 - present.

Journal of Biomedical Informatics. February 2013 - present.

Reviewer - Conferences and Workshops

2017 Richard Tapia Celebration of Diversity in Computing Conference, poster session. February 2017.

iConference 2016. October 2015.

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

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

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

Linguistic Annotation Workshop V. June 2011.

Committees and Academic Service

SLIS faculty search committee, Chair (June 2016 - present)

Science Club for Girls, Computer Science Week Teacher (July 2017)

Computer Science Advanced Placement Exam grader (June 2016, June 2017)

SURPASS committee at Simmons College (February 2016 - present)

Simmons College Academic Technology Committee (December 2015 - present)

SLIS Faculty Secretary (July 2015 - June 2016)

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 - June 2017)

Computer Science Department (July 2014 - present)

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

Professional Memberships

Association for Computational Linguistics

Association for Information Science and Technology

Association for Computing Machinery

OPEN SOURCE SOFTWARE

MAE: Multi-purpose Annotation Environment

Available: <https://github.com/amber-stubbs/mae-annotation>

MAI: Multi-document Adjudication Interface

Available: <https://github.com/amber-stubbs/mai-adjudication>