

# Jeffrey Flanigan

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College of Information and Computer Sciences  
University of Massachusetts Amherst  
140 Governors Dr., Amherst, MA 01003  
650-387-8290, jflanigan@cs.umass.edu  
<https://jflanigan.github.io/>

**RESEARCH INTERESTS** My research interests are in the areas of natural language processing and machine learning. I work on semantic parsing and language generation, and applications such as machine translation, summarization, and question answering.

**EDUCATION** **Carnegie Mellon University**  
Ph.D. in Language Technologies, School of Computer Science, Language Technologies Institute.  
Thesis: Parsing and Generation for the Abstract Meaning Representation.  
Advisors: Jaime Carbonell, Chris Dyer, Noah Smith  
August 2010 - December 2018.

**California Institute of Technology**  
M.S. in Physics. September 2007 - June 2010.

**University of California, Santa Barbara**  
B.S. with Highest Honors in Physics and Mathematics. September 2002 - June 2007.

**EXPERIENCE** **University of Massachusetts Amherst**  
Post-Doctoral Fellow, College of Information and Computer Sciences, 2018 - present.

**Carnegie Mellon University**  
Graduate Research Assistant, School of Computer Science, Language Technologies Institute, 2010 - 2018.

**Fred Jelinek Memorial Summer Workshop**  
Invited participant, Summer 2014.

**AWARDS** **Best Paper Honorable Mention**, Association for Computational Linguistics, 2014.  
**Highest Honors**, University of California, Santa Barbara, 2010.

**TEACHING** **Carnegie Mellon University**  
*Teaching Assistant*  
Statistical Machine Learning, Spring 2014  
Structured Prediction, Fall 2013

**California Institute of Technology**  
*Teaching Assistant*  
Physics Lab, 2009-2010  
Computational Physics, 2007-2009

**ADVISING** **University of Massachusetts Amherst**  
Johnny Wei, Senior Thesis, 2018

**Carnegie Mellon University**  
Anastassia Kornilova, Senior Thesis, 2015

**Fred Jelinek Memorial Summer Workshop**  
Adi Renduchintala and Naomi Saphra, 2014

**TUTORIALS**     **NAACL - HLT**  
The Logic of AMR: Practical, Unified, Graph-Based Sentence Semantics for NLP, 2015.

**SERVICE**     **Program committee**  
ACL (2015, 2016, 2017, 2018), NAACL (2015, 2016, 2017, 2018), EMNLP (2015, 2016, 2017, 2018), \*SEM (2016)

**PUBLICATIONS** Jeffrey Flanigan. *Parsing and Generation for the Abstract Meaning Representation*. Ph.D. Thesis 2018.

Sheshera Mysore, Zach Jensen, Edward Kim, Kevin Huang, Haw-Shiuan Chang, Emma Strubell, Jeffrey Flanigan, Andrew McCallum, Brendan O'Connor, Elsa Olivetti. *Overcoming Annotation Scarcity for Shallow Semantic Parsing in Scientific Procedural Text*. In AKBC 2019. (Submitted)

Jeffrey Flanigan, Chris Dyer, Noah A. Smith and Jaime Carbonell. *Generation from Abstract Meaning Representation using Tree Transducers*. In Proceedings of NAACL 2016.

Jeffrey Flanigan, Chris Dyer, Noah A. Smith and Jaime Carbonell. *CMU at SemEval-2016 Task 8: Graph-based AMR Parsing with Infinite Ramp Loss*. In SemEval 2016.

Fei Liu, Jeffrey Flanigan, Sam Thomson, Norman Sadeh and Noah A. Smith. *Toward Abstractive Summarization Using Semantic Representations*. In Proceedings of NAACL 2015.

Sam Thomson, Brendan O'Connor, Jeffrey Flanigan, David Bamman, Jesse Dodge, Swabha Swayamdipta, Nathan Schneider, Chris Dyer and Noah A. Smith. *CMU: Arc-Factored, Discriminative Semantic Dependency Parsing*. In SemEval 2014.

Jeffrey Flanigan, Sam Thomson, Jaime Carbonell, Chris Dyer and Noah A. Smith. *A Discriminative Graph-Based Parser for the Abstract Meaning Representation*. In Proceedings of ACL 2014.

Jeffrey Flanigan, Chris Dyer and Jaime Carbonell. *Large-Scale Discriminative Training for Statistical Machine Translation Using Held-Out Line Search*. In Proceedings of NAACL 2013.

Kevin Gimpel, Nathan Schneider, Brendan O'Connor, Dipanjan Das, Daniel Mills, Jacob Eisenstein, Michael Heilman, Dani Yogatama, Jeffrey Flanigan, and Noah A. Smith. *Part-of-Speech Tagging for Twitter: Annotation, Features, and Experiments*. In Proceedings of ACL 2011.