

# Jeffrey Flanigan

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## RESEARCH INTERESTS

My research interests are in the areas of natural language processing and machine learning, especially structured prediction. I work on semantic parsing and language generation, with an eye towards diverse applications such as machine translation, summarization, question answering, and entailment.

## EDUCATION

### **Carnegie Mellon University**

Ph.D. candidate, School of Computer Science, Language Technologies Institute.  
Thesis: Mapping Natural Language to and from the Abstract Meaning Representation.

Advisors: Jaime Carbonell, Chris Dyer, Noah Smith

August 2010 - present. Expected graduation: May 2017.

### **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

### **Carnegie Mellon University**

Graduate Research Assistant, School of Computer Science, Language Technologies Institute, 2010 - present.

### **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

### **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), NAACL (2015), EMNLP (2015, 2016), \*SEM (2016)

**PUBLICATIONS**

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.