

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.