

# Karl Pichotta

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## Education

- 2017 PhD, Computer Science, University of Texas at Austin.
- 2013 MS, Computer Science, University of Texas at Austin.
- 2008 BS, Symbolic Systems (Honors), Minor in Mathematics, Stanford University.

## Research Interests

Natural Language Processing, Document and Discourse-level Computational Semantics, Machine Learning.

## Publications

### JOURNAL ARTICLES

- 2012 Vladimir Lifschitz, Karl Pichotta and Fangkai Yang. Relational Theories with Null Values and Non-Herbrand Stable Models. *Theory and Practice of Logic Programming*, 12(4-5):565-582. 2012.

### CONFERENCE PROCEEDINGS

- 2018 Wesley Tansey, Karl Pichotta, and James G. Scott. Leaf-Smoothed Hierarchical Softmax for Ordinal Prediction. *Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI-18)*.
- 2016 Karl Pichotta and Raymond J. Mooney. Using Sentence-Level LSTM Language Models for Script Inference. *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL-16)*.
- 2016 Karl Pichotta and Raymond J. Mooney. Learning Statistical Scripts With LSTM Recurrent Neural Networks. *Proceedings of the 30th AAAI Conference on Artificial Intelligence (AAAI-16)*.
- 2014 Karl Pichotta and Raymond J. Mooney. Statistical Script Learning with Multi-Argument Events. *Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2014)*.

2013 Karl Pichotta and John DeNero. Identifying Phrasal Verbs Using Many Bilingual Corpora. *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP 2013)*.

#### WORKSHOP PROCEEDINGS

2016 Karl Pichotta and Raymond J. Mooney. Statistical Script Learning with Recurrent Neural Networks. Workshop on Uphill Battles in Natural Language Processing at EMNLP 2016.

#### THESES

2017 Karl Pichotta. Advances in Statistical Script Learning. PhD Thesis, Department of Computer Science, The University of Texas at Austin. 2017.

2008 Karl Pichotta. Processing Paraphrases and Phrasal Implicatives in the Bridge Question-Answering System. Undergraduate Honors Thesis, Symbolic Systems Program, Stanford University. 2008.

#### Honors, Awards, & Fellowships

2010 Microelectronics and Computer Development (MCD) Fellowship, University of Texas at Austin.

2006 Summer Research Fellowship, Stanford University.

2004 Robert C. Byrd Honors Scholarship.

2004 National Merit Scholarship.

#### Teaching

#### STANFORD UNIVERSITY

2006-2008 Section Leader, Programming Methodology & Programming Abstractions: Fall 2006-Spring 2008.

#### Research and Industry Positions

2014 Google, PhD Intern.  
Machine Learning for Natural Language Processing.

2012 Google, PhD Intern.  
Machine Learning for Natural Language Processing.

2008-2010 Versay Solutions, Software Engineer.  
Voice interfaces; Natural Language Processing for application analytics.

- 2008 SRI Artificial Intelligence Center, Student Associate.  
Automatic text summarization.
- 2007 PARC (Palo Alto Research Center) Natural Language Theory and Technology Group,  
Research Intern.  
Implementation of certain classes of textual entailment in large NLP system.
- 2006 Stanford University Electrical Engineering Department, Research Assistant.  
Automatic detection of lightning events from atmospheric data.
- 2005 Motorola, Intern.  
Radio network infrastructure software engineering.
- 2004 Motorola, Intern.  
Large-scale simulation of communications infrastructure.

#### Professional Activities

- 2018 Program Committee, ACL 2018, AAAI 2018, LREC 2018, Gen-Deep18 workshop.
- 2017 Program Committee, ACL 2017, IJCNLP 2017.  
Secondary Reviewer, EACL 2017, IJCAI 2017.
- 2016 Program Committee, COLING 2016, AAAI 2016.
- 2015 Program Committee, EMNLP 2015.  
Secondary Reviewer, AAAI 2015.
- 2008 Secondary Reviewer, ICAPS 2008.

#### Languages

English (native).  
Spanish (conversational).  
German (terrible).

Last updated: December 19, 2017