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KAI ZHAO

research interests Algorithms and theory in Natural Language Processing: Structured Prediction; Syntactic/Semantic Parsing; Online Learning; Machine Translation.

education **Ph.D Student**, *Graduate Center, City University of New York*, New York, NY. 2010 - present.
Mentor: Professor Liang Huang
Major: Computer Science
B.Eng., *University of Science and Technology of China*, Hefei, China. 2006 - 2010.
Graduated with Honors
Major: Computer Science

experience **Research Assistant**, *City University of New York*, New York, NY. 2012 - present.
Focused on Structured Prediction problems in Natural Language Processing, including:
◦ incremental semantic parsing;
◦ incremental parsing with best-first search strategy;
◦ discriminative training for statistical machine translation;
◦ parallelizing online learning for large-scale NLP tasks.
Research Intern, *Google Inc.*, New York, NY. Summer 2015.
Structured Data Team
Mentor: Hao Zhang
Investigated inducing entity similarities from web table corpus with an alignment model.
Research Intern, *Microsoft Research*, Redmond, WA. Summer 2014.
Machine Translation Group
Mentor: Hany Hassan
Explored learning translation rules from monolingual continuous representations.
Research Intern, *IBM T.J. Watson Research Center*, Yorktown Heights, NY. Summer 2013.
Multilingual Natural Language Processing Group
Mentor: Abe Ittycheriah
Adapted large-scale discriminative training to syntax based machine translation system.

publications Feifei Zhai, Liang Huang, and Kai Zhao. "Search-Aware Tuning for Hierarchical Phrase-based Decoding." *Proceedings of EMNLP*, 2015.
Kai Zhao, Hany Hassan, and Michael Auli. "Learning Translation Models from Monolingual Continuous Representations." *Proceedings of NAACL*, 2015.
Kai Zhao and Liang Huang. "Type-driven Incremental Semantic Parsing with Polymorphism." *Proceedings of NAACL*, 2015.

Kai Zhao, Liang Huang, Haitao Mi, and Abe Ittycheriah. “[Hierarchical MT Training using Max-Violation Perceptron](#).” *Proceedings of ACL*, 2014.

Kai Zhao, James Cross, and Liang Huang. “[Optimal Incremental Parsing via Best-First Dynamic Programming](#).” *Proceedings of EMNLP*, 2013.

Heng Yu, Liang Huang, Haitao Mi, and Kai Zhao. “[Max-Violation Perceptron and Forced Decoding for Scalable MT Training](#).” *Proceedings of EMNLP*, 2013.

Hao Zhang, Liang Huang, Kai Zhao, and Ryan McDonald. “[Online Learning for Inexact Hypergraph Search](#).” *Proceedings of EMNLP*, 2013.

Yoav Goldberg, Kai Zhao, and Liang Huang. “[Efficient Implementation of Beam- Search Incremental Parsers](#).” *Proceedings of ACL*, 2013.

Kai Zhao and Liang Huang. “[Minibatch and Parallelization for Online Large Margin Structured Learning](#).” *Proceedings of NAACL*, 2013.

honors &
awards

Science Fellowship, Graduate Center, City University of New York. 2010 & 2011.

National Scholarship, Ministry of Education of China. 2009.

Outstanding Student Scholarship, University of Science and Technology of China. 2008.