365 Fifth Avenue
New York, NY 10016
kzhao.hf@gmail.com
http://kaizhao.me

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, *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

Kai Zhao and Liang Huang. "Type-driven Incremental Semantic Parsing with Polymorphism." *Proceedings of NAACL*, 2015.

Kai Zhao, Hany Hassan, and Michael Auli. "Learning Translation Models from Monolingual Continuous Representations." *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.