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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 Univ. of New York*, New York, NY. 2010 - present.
Mentor: Professor Liang Huang
Major: Computer Science

B.Eng., *Univ. of Science and Technology of China*, Hefei, China. 2006 - 2010.
Graduated with Honors
Major: Computer Science

experience **Research Assistant**, *City Univ. 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. 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. 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, CUNY. 2010 & 2011.

National Scholarship, Ministry of Education of China. 2009.

Outstanding Student Scholarship, USTC. 2008.