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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:

- o incremental semantic parsing;
- o incremental parsing with best-first search strategy;
- o discriminative training for statistical machine translation;
- o 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 & Science Fellowship, Graduate Center, CUNY. 2010 & 2011.

National Scholarship, Ministry of Education of China. 2009.

Outstanding Student Scholarship, USTC. 2008.