

He He

CONTACT INFORMATION	Gates 254 Stanford University Stanford, CA 94305	Phone: (301) 312-5903 E-mail: hehe@cs.stanford.edu Website: hhexiy.github.io
RESEARCH INTERESTS		
EDUCATION	University of Maryland, College Park , U.S.A. Ph.D. in Computer Science (Advisors: Hal Daumé III, Jordan Boyd-Graber) M.Sc. in Computer Science	2011–2016 2011–2013
	The Hong Kong Polytechnic University , China B.Eng. (Hons) in Electronic and Information Engineering (Advisor: Wan-Chi Siu)	2007–2011
	University of Waterloo , Canada Non-degree exchange, Department of Electrical and Computer Engineering	Fall 2009
EMPLOYMENT	Stanford University , Stanford, CA Post-doc researcher (Supervisor: Percy Liang)	2016–
	Microsoft Cloud Information and Service Lab , Redmond, WA <i>Research Intern</i> (Mentors: Paul Mineiro, Nikos Karampatziakis) Active information acquisition for sentiment analysis and object recognition	Summer 2015
	Machine Learning Group, Microsoft Research , Redmond, WA <i>Research Intern</i> (Mentors: Lihong Li, Jason Williams) Combining imitation learning and reinforcement learning for dialog management	Summer 2013
AWARDS AND HONORS	Board of Visitors Graduate Student Award (awarded to 2 students in the CMNS college) Larry S. Davis Dissertation Award Best Demonstration Award, NIPS Tammy L. Blair Award 2nd runner-up, Fusion Dean's Fellowship, UMD Best Academic Performance Award (awarded to the top 3 students), HKPolyU Dean's Honors List, HKPolyU HSBC Scholarship for Mainland Students CMA & Donors Scholarship Non-local Students Scholarship (academic), HKPolyU	2016 2016 2015 2015 2011–2012 2008–2010 2008–2010 2008–2010 2008–2010 2007–2010
PUBLICATIONS	<u>Conference</u> He He , Anusha Balakrishnan, Mihail Eric and Percy Liang. Learning Symmetric Collaborative Dialogue Agents with Dynamic Knowledge Graph Embeddings. Association for Computational Linguistics (ACL), 2017 Kai-Wei Chang, He He , Hal Daumé III, John Langford and Stéphane Ross. A Credit Assignment Compiler for Joint Prediction. Neural Information Processing Systems (NIPS), 2016. He He , Jordan Boyd-Graber, Kevin Kwok and Hal Daumé III. Opponent Modeling in Deep Reinforcement Learning. International Conference on Machine Learning (ICML), 2016. He He , Jordan Boyd-Graber and Hal Daumé III. Interpretese vs. Translationese: The Uniqueness of Human Strategies in Simultaneous	

Interpretation.

North American Association for Computational Linguistics (NAACL), 2016.

Xi Chen, **He He**, Larry Davis.

Object Detection in 20 Questions.

IEEE Winter Conference on Applications of Computer Vision (WACV), 2016.

He He, Alvin Grissom II, Jordan Boyd-Graber and Hal Daumé III.

Syntax-based Rewriting for Simultaneous Machine Translation.

Empirical Methods in Natural Language Processing (EMNLP), 2015.

Jordan Boyd-Graber, Mohit Iyyer, **He He**, and Hal Daumé III.

Interactive Incremental Question Answering. (Demo track)

Neural Information Processing Systems (NIPS), 2015. Best demonstration award.

Xiangyang Liu, **He He** and John Baras.

Crowdsourcing with Multi-Dimensional Trust.

International Conference on Information Fusion (Fusion), 2015. 2nd runner-up for the Tammy L. Blair Award.

Xiangyang Liu, **He He** and John Baras.

Trust-Aware Optimal Crowdsourcing With Budget Constraint.

IEEE International Conference on Communications (ICC), 2015.

He He, Hal Daumé III and Jason Eisner.

Learning to Search in Branch and Bound Algorithms.

Neural Information Processing Systems (NIPS), 2014.

Alvin Grissom II, **He He**, Jordan Boyd-Graber, John Morgan, and Hal Daumé III.

Don't Until the Final Verb Wait: Reinforcement Learning for Simultaneous Machine Translation.

Empirical Methods in Natural Language Processing (EMNLP), 2014.

Lihong Li, **He He** and Jason D. Williams.

Temporal Supervised Learning for Inferring a Dialog Policy from Example Conversations.

IEEE Workshop on Spoken Language Technology (SLT), 2014.

He He, Hal Daumé III and Jason Eisner.

Dynamic Feature Selection for Dependency Parsing.

Empirical Methods in Natural Language Processing (EMNLP), 2013.

He He, Hal Daumé III and Jason Eisner.

Imitation Learning by Coaching.

Neural Information Processing Systems (NIPS), 2012.

Jordan Boyd-Graber, Brianna Satinoff, **He He** and Hal Daumé III.

Besting the Quiz Master: Crowdsourcing Incremental Classification Games.

Empirical Methods in Natural Language Processing (EMNLP), 2012.

He He and Wan Chi Siu.

Image Super-resolution using Gaussian Process Regression.

Computer Vision and Pattern Recognition Conference (CVPR), 2011.

He He and Ali Ghodsi.

Rare Class Classification by Support Vector Machines.

International Conference on Pattern Recognition (ICPR), 2010.

Workshop

He He, Paul Mineiro and Nikos Karampatziakis.

Active Information Acquisition.

Machine Learning From and For Adaptive User Technologies: From Active Learning & Experimentation to Optimization & Personalization, NIPS, 2015.

He He, Hal Daumé III and Jason Eisner.

Cost-sensitive Dynamic Feature Selection. Workshop on Inferning, ICML, 2012.

TEACHING EXPERIENCE	Department of Computer Science, University of Maryland, College Park <i>Teaching Assistant</i> , Object-oriented Programming (CMSC 132)	Fall 2011
INVITED TALKS	Learning agents that interact with humans USC ISI, Allen Institute for AI, Salesforce, SJTU	2017
	Understanding natural language: chat bots and beyond WECode (women in computer science conference)	2017
	Decision-making in incremental question answering Stanford Data Science Initiative Retreat	2016
	Sequential decision-making for natural language processing UPenn, UC Boulder, Microsoft Research	2015
PROFESSIONAL SERVICE	<i>Reviewer</i> , ACL, NAACL, EMNLP, NIPS, ICML, AAAI, AISTATS <i>Co-chair</i> , First Workshop for Women and Underrepresented Minorities in NLP <i>Co-chair</i> , ACL Student Research Workshop <i>Organizing Committee</i> , NAACL Workshop on Human-computer Question Answering <i>Organizing Committee</i> , NAACL Tutorial on Learning to Search for Structured Prediction <i>Organizing Committee</i> , Mid-Atlantic Student Colloquium on Speech, Language and Learning <i>Contributor</i> , Challenge Problem on NLP for DARPA Program Probabilistic Programming for Advancing Machine Learning	2017 2016 2016 2015 2015 2015