He He

CONTACT INFORMATION

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EMPLOYMENT

Stanford University, U.S.A.
Postdoc (Supervisor: Percy Liang) 2016–Present

EDUCATION

University of Maryland, College Park, U.S.A.
Ph.D. in Computer Science (Advisors: Hal Daumé III, Jordan Boyd-Graber) 2016
M.Sc. in Computer Science 2013

The Hong Kong Polytechnic University, China
B.Eng. (Hons) in Electronic and Information Engineering (Advisor: Wan-Chi Siu) 2011

University of Waterloo, Canada Fall 2009
Non-degree exchange, Department of Electrical and Computer Engineering

PUBLICATIONS

Conference

Kai-Wei Chang, **He He**, Hal Daumé III, John Langford and Stéphane Ross.
Opponent Modeling in Deep Reinforcement Learning.
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.

Jordan Boyd-Graber, Mohit Iyyer, **He He**, and Hal Daumé III.
Interactive Incremental Question Answering. (demo)
Neural Information Processing Systems (NIPS), 2015. Best demonstration award.

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.

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.
Spoken Language Technology Workshop (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 Machine.
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.

Awards

Larry S. Davis Dissertation Award	2016
NIPS Student Travel Award	2012, 2014
Dean's Fellowship, UMD	2011, 2012
Best Academic Performance Award (awarded to the top 3 students), HKPolyU	2008 - 2010
Dean's Honors List, HKPolyU	2008 - 2010
Non-local Students Scholarship (academic), HKPolyU	2007 - 2010
HSBC Scholarship for Mainland Students	2008 - 2010
CMA & Donors Scholarship	2008 - 2010

Working Experience

Microsoft Cloud Information and Service Lab, Redmond, WA
Research Intern (mentors: Paul Mineiro, Nikos Karampatziakis) June 2015 to August 2015
Active information acquisition for sentiment analysis and object recognition

Machine Learning Group, Microsoft Research, Redmond, WA
Research Intern (mentors: Lihong Li, Jason Williams) May 2013 to August 2013
Combining imitation learning and reinforcement learning for dialog management

Teaching Experience

Department of Linguistics, University of Maryland, College Park
Co-instructor, Python Crash Course at the Winter Storm Workshop Jan 2013

Department of Computer Science, University of Maryland, College Park
Teaching Assistant, CMSC 132 Object-oriented Programming Fall 2011

Service

Organizer

NAACL Workshop: Human-computer question answering, 2016.
With Jordan Boyd-Graber, Mohit Iyyer and Hal Daumé III.

NAACL Tutorial: Hands-on Learning to Search for Structured Prediction, 2015.
With Hal Daumé III, John Lanford, Kai-Wei Chang and Sudha Rao.

Mid-Atlantic Student Colloquium on Speech, Language and Learning, 2015.
With Mossaab Bagdouri, Shuoyang Ding and Nanyun Peng, advised by Hal Daumé III and Mark Dredze.

DARPA Program: Probabilistic Programming for Advancing Machine Learning (Challenge Problem 5: Natural Language Processing), 2015.
With Galois, Inc. and Tom Dietterich.

Co-chair

ACL Student Research Workshop, 2016

Reviewer

NAACL, EMNLP, ACL, NIPS, ICML, AAAI, AISTATS