

Haoruo Peng

CONTACT INFORMATION

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EDUCATION

University of Illinois, Urbana Champaign
Ph.D., Computer Science, 2013 – present
Advisor: Prof. Dan Roth

Tsinghua University, China
Bachelor, Computer Science, 2013
GPA: 3.89/4.0

RESEARCH INTERESTS

Natural Language Processing, Machine Learning

INTERNSHIPS

Facebook, Menlo Park May - Aug 2017
Supervisor : Dr. Zhongyuan Wang

Microsoft Research, Redmond May - Aug 2016
Supervisor : Dr. Ming-Wei Chang

Google, Mountain View May - Aug 2014
Supervisor : Dr. Samer Hassan

Yahoo! Global R&D Center, Beijing Oct 2012 - Jul 2013
Supervisor : Lin Liu

Google Research, Beijing Oct 2011 - Aug 2012
Supervisor : Dr. Edward Y. Chang and Prof. Zhihua Zhang

PUBLICATIONS IN HIGHLY SELECTIVE VENUES

Maximum Margin Reward Networks for Learning from Explicit and Implicit Supervision
Haoruo Peng, Ming-Wei Chang, Wen-tau Yih
Empirical Methods in Natural Language Processing (EMNLP) 2017

Story Comprehension for Predicting What Happens Next
Snigdha Chaturvedi, **Haoruo Peng**, Dan Roth
Empirical Methods in Natural Language Processing (EMNLP) 2017

A Joint Model for Semantic Sequences: Frames, Entities, Sentiments
Haoruo Peng, Snigdha Chaturvedi, Dan Roth
SIGNLL Conference on Computational Natural Language Learning (CoNLL) 2017

Bilingual Lexicon Induction From Non-Parallel Data With Minimal Supervision
Meng Zhang, **Haoruo Peng**, Yang Liu, Huanbo Luan, Maosong Sun
Thirty-First AAAI Conference on Artificial Intelligence (AAAI) 2017

Event Detection and Co-reference with Minimal Supervision
Haoruo Peng, Yangqiu Song, Dan Roth
Empirical Methods in Natural Language Processing (EMNLP) 2016

Two Discourse Driven Language Models for Semantics
Haoruo Peng, Dan Roth
Annual Meeting of the Association for Computational Linguistics (ACL) 2016

Cross-lingual Dataless Classification for Many Languages
Yangqiu Song, Shyam Upadhyay, **Haoruo Peng**, Dan Roth
International Joint Conference on Artificial Intelligence (IJCAI) 2016

A Joint Framework for Coreference Resolution and Mention Head Detection
Haoruo Peng, Kai-Wei Chang, Dan Roth.
SIGNLL Conference on Computational Natural Language Learning (CoNLL) 2015

Solving Hard Coreference Problems
Haoruo Peng^{*}, Daniel Khashabi^{*}, Dan Roth
Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2015

A Scalable Approach to Column-Based Low-Rank Matrix Approximation
Yifan Pi, **Haoruo Peng**, Shuchang Zhou, Edward Y. Chang, Zhihua Zhang.
International Joint Conference on Artificial Intelligence (IJCAI) 2013

Sublinear Algorithms for Penalized Logistic Regression in Massive Datasets
Haoruo Peng, Zhengyu Wang, Edward Y. Chang, Shuchang Zhou, Zhihua Zhang
European Conference on Machine Learning (ECML) 2012

* denotes equal contribution

OTHER
PUBLICATIONS

Regions, Periods, Activities: Uncovering Urban Dynamics via Cross-Modal Representation Learning
Chao Zhang, Keyang Zhang, Quan Yuan, **Haoruo Peng**, Yu Zheng, Tim Hanratty, Shaowen Wang, Jiawei Han
World Wide Web Conference (WWW) 2017

Illinois CCG Entity Discovery and Linking, Event Nugget Detection and Co-reference, and Slot Filler Validation Systems for TAC 2016
Chen-Tse Tsai, Stephen Mayhew, **Haoruo Peng**, Mark Sammons, Bhargav Mangipundi, Pavankumar Reddy, and Dan Roth
Text Analysis Conference (TAC) 2016

Illinois CCG TAC 2015 Event Nugget, Entity Discovery and Linking, and Slot Filler Validation Systems
Mark Sammons, **Haoruo Peng**, Yangqiu Song, Shyam Upadhyay, Chen-Tse Tsai, Pavankumar Reddy, Subhro Roy, Dan Roth
Text Analysis Conference (TAC) 2015

The University of Illinois submission to the WMT 2015 Shared Translation Task
Lane Schwartz, Bill Bryce, Chase Geigle, Sean Massung, Yisi Liu, **Haoruo Peng**, Vignesh Raja, Subhro Roy, Shyam Upadhyay
Workshop on Statistical Machine Translation (WMT) 2015

Improving a Pipeline Architecture for Shallow Discourse Parsing
Yangqiu Song, **Haoruo Peng**, Parisa Kordjamshidi, Mark Sammons, Dan Roth
SIGNLL Conference on Computational Natural Language Learning: Shared Task (CoNLL-Shared Task) 2015

ILLINOIS-PROFILER: Knowledge schemas at scale
Zhiye Fei, Daniel Khashabi, **Haoruo Peng**, and Dan Roth
IJCAI Workshop on Cognitive Knowledge Acquisition and Applications (Cognitum) 2015

Learning for Logistic Regression Model in Parallel
Haoruo Peng, Ding Liang, Cyrus Choi, Edward Y. Chang
IEEE Big Data Workshop on Scalable Machine Learning 2013

HONORS AND
AWARDS

- Recipient of the **Friend of Tsinghua-ESS Scholarship**, awarded by Tsinghua University, 2011
- Ranked 2nd class in the **NetEase Cup Programming Contest** (tryout for ACM/ICPC). Ranked 18/109, 2010
- Ranked 2nd class in the **SoHu Cup AI Contest**. Developed an AI with changing strategies for a role-playing game based on the history of “Three Kingdoms”, 2010

TEACHING
EXPERIENCE

- **Teaching Assistant** for CS446 Machine Learning, UIUC, Fall 2015

SERVICE

PC Member : NLPCC 2017

Reviewer : ECML 2015, SDM 2015, AAAI 2015, IJCAI 2015 2016