

Yizhong Wang

CONTACT INFORMATION	School of EECS, Peking University Science Building 1, Office 1450 No.5 Yiheyuan Road, Haidian District Beijing, China, 100871	Phone: (+86) 188-1821-2946 E-mail: yizhong@pku.edu.cn Website: yizhong-wang.com Github: github.com/yizhongw
RESEARCH INTERESTS	Natural Language Processing and Machine Learning , with current focus on Machine Reading, Discrete Reasoning and Question Answering .	
EDUCATION	Peking University , Beijing, China M.S. Candidate, Computer Science	September, 2016 - July, 2019 (expected)
	<ul style="list-style-type: none">• Working as a research assistant in the MOE Key Lab of Computational Linguistics• Research focus: Discourse Parsing, Machine Reading Comprehension• Advisor: Prof. Sujian Li	
	Shanghai Jiao Tong University , Shanghai, China B.Eng., Computer Science and Technology (IEEE Pilot Class)	September, 2012 - July, 2016
	<ul style="list-style-type: none">• Bachelor's thesis: "Mining Cultural Differences between Terms and Relations in Text"• Advisor: Prof. Kenny Q. Zhu and Prof. Xinbing Wang	
INDUSTRIAL EXPERIENCE	Research Intern @ Allen Institute for Artificial Intelligence I work with Dr. Matt Gardner and Prof. Sameer Singh in the AllenNLP team. Our ongoing project aims to answer "complex" questions on open-domain documents. We hope this to drive the next-generation machine reading comprehension, which requires not only pattern matching, but also logical reasoning, arithmetic computation, etc. We are creating datasets and experimenting with several new methodologies, including machine reading comprehension, information extraction, semantic parsing and their combinations.	October, 2018 - Now
	Research Intern @ Microsoft Research Asia I worked with Dr. Furu Wei in the Natural Language Computing team. We proposed a new architecture called Universal Attention Flow. It uses a unified attention function for all the alignments in the model, and therefore requires no specially-designed attention for each input. Using this mechanism, our system (nlnet) is the first system to outperform human w.r.t. both EM and F1 on SQuAD 1.1 and it also achieves SOTA performance on SQuAD 2.0 and QuAC.	May, 2018 - September, 2018
	Research Intern @ Baidu NLP I was affiliated with the Deep Question Answering Team and worked on machine reading comprehension. We released the largest Chinese reading comprehension dataset (DuReader). I also proposed a new model (V-Net) for multi-passage machine reading comprehension, which won the first place on the MS-MARCO leaderboard and was published at ACL 2018.	June, 2017 - February, 2018
	Software Engineer Intern @ TouchPal Technology I worked for the Input Method Engine Team and was responsible for building new language models for Hindi and Portuguese, which are used for input prediction in TouchPal Keyboard. We crawled large amount of data from various sources and also developed algorithms to leverage user data. The language models I built were successfully used in new products.	November, 2015 - March, 2016
TEACHING EXPERIENCE	Introduction to Artificial Intelligence, Peking University Teaching Assistant, Instructor: Prof. Vincent Ng	Summer, 2018
	Discrete Math, Peking University Teaching Assistant, Instructor: Prof. Sujian Li	Fall, 2016 / Fall, 2017

HONORS AND
AWARDS

Outstanding Paper Award of ACL 2017
Founder Scholarship, 2017
Chun-Tsung Scholarship (established by Nobel Prize laureate T. D. Lee), 2016
Outstanding Graduate of Shanghai Jiao Tong Univ., 2016
Meritorious Winner of the Mathematical Contest in Modeling, 2015
Xindong Scholarship, 2013 / 2015
Academic Excellence Scholarship of Shanghai Jiao Tong Univ., 2013 / 2014 / 2015

PUBLICATIONS

Toward Fast and Accurate Neural Discourse Segmentation

Yizhong Wang, Sujian Li
EMNLP, 2018, Oral.

Multi-Passage Machine Reading Comprehension with Cross-Passage Answer Verification

Yizhong Wang, Kai Liu, Jing Liu, Wei He, Yajuan Lyu, Hua Wu, Sujian Li, Haifeng Wang
ACL, 2018, Oral.

Bag-of-Words as Target for Neural Machine Translation

Shuming Ma, Xu Sun, **Yizhong Wang**, Junyang Lin
ACL, 2018, Poster.

DuReader: a Chinese Machine Reading Comprehension Dataset from Real-world Applications

Wei He, Kai Liu, Jing Liu, Yajuan Lyu, Shiqi Zhao, Xinyan Xiao, Yuan Liu, **Yizhong Wang**,
Hua Wu, Qiaoqiao She, Xuan Liu, Tian Wu, Haifeng Wang
ACL Workshop on Machine Reading for Question Answering, 2018

A Two-stage Parsing Method for Text-level Discourse Analysis

Yizhong Wang, Sujian Li and Houfeng Wang
ACL, 2017, Oral. (**Outstanding Paper Award**)

Tag-Enhanced Tree-Structured Neural Networks for Implicit Discourse Relation Classification

Yizhong Wang, Sujian Li, Jingfeng Yang, Xu Sun and Houfeng Wang
IJCNLP, 2017, Oral.

Towards Non-projective High-Order Dependency Parser

Wenjing Fang, Kenny Q. Zhu, **Yizhong Wang**, Jia Tan.
COLING 2016, System Demonstration

PROFESSIONAL
SKILLS

Programming Languages: Python, C++, Java, PHP, JavaScript, Bash

Machine Learning Toolkits: PyTorch, Tensorflow, AllenNLP, scikit-learn, XGBoost

Distributed Systems and Databases: Docker, Hadoop, Hive, MySQL

Operating Systems: Linux (Preferred), MacOS, Windows

Other frequently-used tools: Git, Latex, Vim