

# Yizhong Wang

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

**Natural Language Processing** and **Machine Learning**, with current focus on **Discourse Structure**, **Machine Reading Comprehension** and **Question Answering**.

## EDUCATION

**Peking University**, Beijing, China September, 2016 - July, 2019 (expected)  
M.S. Candidate, Computer Science, MOE Key Lab of Computational Linguistics

- Research Areas: Discourse Structure, Machine Reading Comprehension
- Advisor: Prof. Sujian Li

**Shanghai Jiao Tong University**, Shanghai, China September, 2012 - July, 2016  
B.Eng., Computer Science and Technology (IEEE Pilot Class)

- Bachelor's thesis: "Mining Cultural Differences between Terms and Relations in Text"
- Advisor: Prof. Kenny Q. Zhu and Prof. Xinbing Wang

## WORK EXPERIENCE

**Research Intern @ Microsoft Research Asia** May, 2018 - Now

I work under the supervision of Dr. Furu Wei. Our T-Net model currently ranks second on SQuAD leaderboard. Another research line focuses on the scalability of machine reading comprehension models. We are creating an ambitious system that only reads the passages once and then answers all potential questions. This work is still in progress.

**Research Intern @ Baidu NLP** June, 2017 - February, 2018

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.

**Software Engineer Intern @ TouchPal Technology** November, 2015 - March, 2016

I worked for the Input Method Engine Team and was responsible for building new language models for Hindi and Portuguese, which are used for the input prediction in TouchPal Keyboard. We crawled large amount of data from various web sources and developed algorithms to improve the language models based on user data. These models were successfully used in the products.

## TEACHING EXPERIENCE

**Discrete Math, Peking University** Fall, 2016 / Fall, 2017

Teaching Assistant, Instructor: Prof. Sujian Li

**Introduction to Artificial Intelligence, Peking University** Summer, 2018

Teaching Assistant, Instructor: Prof. Vincent Ng

## HONORS AND AWARDS

Outstanding Paper Award of ACL 2017

Founder Scholarship, 2017

Chun-Tsung Scholarship (established by Nobel Prize laureate T. D. Lee), 2016

Excellent Graduate of Shanghai Jiao Tong Univ., 2016

Meritorious Winner of the Mathematical Contest in Modeling, 2015

Academic Excellence Scholarship of Shanghai Jiao Tong Univ., 2013 / 2014 / 2015

PUBLICATIONS

Toward Fast and Accurate Neural Discourse Segmentation  
**Yizhong Wang**, Sujian Li  
Under the review of EMNLP 2018

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, Long, Oral

Bag-of-Words as Target for Neural Machine Translation  
Shuming Ma, Xu Sun, **Yizhong Wang**, Junyang Lin  
ACL 2018, Short, 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 2018 Workshop on Machine Reading for Question Answering

A Two-stage Parsing Method for Text-level Discourse Analysis  
**Yizhong Wang**, Sujian Li and Houfeng Wang  
ACL 2017, Short, 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, Long, 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, Shell

**Machine Learning Toolkits:** TensorFlow, PyTorch, Scipy, scikit-learn, XGBoost

**Distributed Systems and Databases:** Hadoop, Spark, Hive, MySQL

**Operating Systems:** Linux (Preferred), MacOS, Windows

**Other frequently-used tools:** Git, Latex, Vim, Markdown