# Rui Zhang


CONTACT

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RESEARCH INTERESTS

My current research focus is to build Deep Learning systems for Natural Language Processing tasks, including text classification, sentiment analysis, dialog systems, summarization, coreference resolution.

EDUCATION

**Yale University** Aug 2017 - Present

PhD, Computer Science
Advised by Prof. Dragomir Radev and Prof. Honglak Lee

**University of Michigan, Ann Arbor** Aug 2015 - May 2017

PhD student, Computer Science
Advised by Prof. Dragomir Radev and Prof. Honglak Lee
GPA 4.0/4.0

**University of Michigan, Ann Arbor** Sept 2013 - Apr 2015

B.S.E., Computer Engineering
Summa Cum Laude
GPA 3.93/4.0

**Shanghai Jiao Tong University** Sept 2011 - Aug 2015

B.S.E., Electrical and Computer Engineering
GPA 3.89/4.0

RESEARCH INTERNSHIPS

**Grammarly**, New York May 2018 - Aug 2018

Summer Research Intern

**IBM Thomas J. Watson Research Center**, New York May 2017 - Aug 2017

Summer Research Intern
Deep Learning for Coreference Resolution in TensorFlow

PUBLICATIONS

**Rui Zhang**, Cicero Nogueira dos Santos, Michihiro Yasunaga, Bing Xiang, Dragomir Radev. Neural Coreference Resolution with Deep Biaffine Attention by Joint Mention Detection and Mention Clustering. *In the 56th Annual Meeting of the Association for Computational Linguistics (ACL), 2018*

Catherine Finegan-Dollak, Jonathan K. Kummerfeld, Li Zhang, Karthik Ramanathan Dhanalakshmi Ramanathan, Sesh Sadasivam, **Rui Zhang**, Dragomir Radev. Improving Text-to-SQL Evaluation Methodology. *In the 56th Annual Meeting of the Association for Computational Linguistics (ACL), 2018*

Tao Yu, Zifan Li, Zilin Zhang, **Rui Zhang**, Dragomir Radev. TypeSQL: Knowledge-based Type-Aware Neural Text-to-SQL Generation. *In the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT), 2018*

**Rui Zhang**, Honglak Lee, Lazaros Polymenakos, Dragomir Radev. Addressee and Response Selection in Multi-Party Conversations with Speaker Interaction RNNs. *In The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI), 2018*

Michihiro Yasunaga, **Rui Zhang**, Kshitijh Meelu, Ayush Pareek, Krishnan Srinivasan, Dragomir Radev. Graph-based Neural Multi-Document Summarization. *In the Conference on Computational Natural Language Learning (CoNLL), 2017*

Catherine Finegan-Dollak, Reed Coke, **Rui Zhang**, Xiangyi Ye, Dragomir Radev. Effects of Text Corpus Properties on Short Text Clustering Performance. *In the 54th Annual Conference of the Association for Computational Linguistics (ACL), 2016*

**Rui Zhang**, Honglak Lee, Dragomir Radev. Dependency Sensitive Convolutional Neural Networks for Modeling Sentences and Documents. *In the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT), 2016*

## Honors and Awards

| | |
|---|---|
| Yale Conference Travel Fellowship | Yale University, December 2017 |
| Rackham Conference Travel Grant | University of Michigan, March 2016 |
| CSE Departmental Fellowship | University of Michigan, 2015-2016 |
| Outstanding Undergraduate Research Award | University of Michigan, March 2015 |
| James B. Angell Scholar | University of Michigan, 2015 |
| Wang Chu Chien-Wen Research Scholarship | University of Michigan, May 2014 |
| Academic Excellence Scholarship **(top 1%)** | University of Michigan, Oct 2012, Oct 2013 |
| Bao Steel Excellence Scholarship | Shanghai Jiao Tong University, Oct 2012 |
| University Merit Student | Shanghai Jiao Tong University, Sept 2012 |
| Dean's List | Every Semester |

## Teaching

**Artificial Intelligence** (CPSC 570), Yale University — Fall 2017

**Natural Language Processing** (EECS 595), University of Michigan — Fall 2016

- Heading TA for maintaining autograders and holding office hours.

**Natural Language Processing** (Coursera)

- Maintain autograders for programming assignments for a Coursera online course

**Artificial Intelligence** (EECS 492), University of Michigan — Winter 2015

- Prepare Homeworks and Exam Problems. Hold office hours.

**Intro to Programming** (EECS 183), University of Michigan — Fall 2014

- Assist with project specifications, lab materials, and exam grading
- Test project auto-grader by self-developing solutions
- Help students with concepts, projects in office hours
- Communicate concerns with instructors to make course effective

## Skills

- Languages: Python, C++, Common Lisp, Prolog, C, Bash Scripts, Java, SQL, JavaScript, PHP, HTML
- Applications/Platforms: TensorFlow, Theano, Torch, Matlab, LaTex, Git, Mathematica, Linux

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| Standardized Tests | GRE: Verbal 156 Quantitative 170 AW 4.5<br>TOEFL: 107 (Speaking 24) |