YANYAN ZOU

(+86) · 1316 · 7114 · 562 ⋄ yanyan_zou@mymail.sutd.edu.sg

EDUCATION

Ph.D. student in Computer Science (Natural Language Processing)   Mar. 2017 - Present
Singapore University of Technology and Design, Singapore
Advisor: Wei Lu

Ph.D. student in Computer Science (Data Integration)   Sept. 2015 - Feb. 2017
Singapore University of Technology and Design, Singapore
Advisor: Meihui Zhang

B.Eng in Electronic Engineering   Sept. 2011 - Jun. 2015
Xiamen University, China
Graduated with **Outstanding Graduate Award**

ACADEMIC EXPERIENCE

Research Intern, Microsoft Research Asia, China   Jun. 2019 - Present
Mentor: Dr. Xingxing Zhang
Topic: Document Summarization

Visiting Student, Peking University, China   Dec. 2018 - May 2019
Advisor: Prof. Xu Sun
Topic: Knowledge Graph Completion

Research Assistant, Singapore University of Technology   Mar. 2017 - Present
and Design, Singapore
Advisor: Prof. Wei Lu
Topic: Semantic Parsing, Text Application

Research Assistant, Singapore University of Technology   Sept. 2015 - Feb. 2017
and Design, Singapore
Advisor: Prof. Meihui Zhang
Topic: Database (Data Integration)

PUBLICATIONS

Text2Math: End-to-end Parsing Text into Math Expressions.
Yanyan Zou and Wei Lu. In *Proc. of* **EMNLP**, 2019.

Aligning Cross-lingual Entities with Multi-Aspect Information
Yanyan Zou*, Hsiu-Wei Yang*, Peng Shi*, Wei Lu, Jimmy Lin and Xu Sun.
In *Proc. of* **EMNLP**, 2019 (*oral*).

Incorporating Fine-grained Events in Stock Movement Prediction
Deli Chen, **Yanyan Zou**, Xuancheng Ren, Ruihan Bao, Keiko Harimoto and Xu Sun.
In *Proc.* of **EMNLP-ECONLP** 2019.

Quantity Tagger: A Latent-Variable Sequence Labeling Approach to Solving Addition-Subtraction
Word Problems
Yanyan Zou and Wei Lu. In *Proc. of* **ACL**, 2019.

Joint Detection and Location of English Puns
Yanyan Zou and Wei Lu. In *Proc. of* **NAACL**, 2019 (*oral*).

Learning Cross-lingual Distributed Logical Representations for Semantic Parsing.
Yanyan Zou and Wei Lu. In *Proc. of* **ACL**, 2018 (*oral*).

CLTR: Collectively Linking Temporal Records Across Heterogeneous Sources.
Yanyan Zou and Perera S. Kasun. In *Proc. of* **DASFAA**, 2017.

PROJECT EXPERIENCE

Financial News for Stock Prediction

- Combined syntax and semantic evidence to make stock movement prediction;
- Applied pre-trained contextual embeddings and summarization methods to distilling knowledge from the noisy financial news, which helps make forex predictions.

Knowledge Graph

- Adopted neural networks with GCNs and BERT to align multilingual knowledge graphs;
- Constructed a neural model to mine commonsense facts from the physical world which can be further used to complete commonsense knowledge bases.

Text Application

- Studied the property of addition-subtraction arithmetic word problems and solved them by a sequence labeling approach;
- Designed a model that addresses both arithmetic word problem solving and equation parsing from a structure prediction perspective;
- Implemented a neural model for detecting and locating English puns in a joint manner.

Semantic Parsing

- Proposed an algorithm to parse a sentence into its meaning representation by finding the most informative words residing in the sentence, which achieves the time complexity linear to the text length;
- Proposed to learn distributed representations of logic forms containing shared cross-lingual information.

HONORS & AWARDS (SELECTED)

SUTD President's Graduate Fellowship, SUTD, Singapore	2015 - Present
Outstanding Student (1st-class), XMU, China	2015, 2014, 2013, 2012
Outstanding Graduate Student (1st-class), XMU, China	2015
Excellent Student Scholarship (top 5%), XMU, China	2015
Academic Innovation Scholarship, XMU, China	2015
National Scholarship (top 2%), MOE of the PRC, China	2014
National Motivational Scholarship (top 5%), MOE of the PRC, China	2013,2012
Honorable Mention, Mathematical Contest in Modeling, USA	2014
1st prize, Fujian, National Mathematical Modeling Contest, China	2013

SKILLS

Computer: Java, Python, Machine Learning, Deep Learning, PyTorch, TensorFlow
Language: English (Professional Proficiency), Chinese (Native) MySQL, Statistics

SERVICES

Reviewer for NLPCC 2017, EMNLP 2018, IJCAI 2019

Teaching assistant for 50.008 Database (UG course), SUTD

Teaching assistant for 50.034 Introduction to Probability and Statistics (UG course), SUTD