

## Xisen Jin

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### CONTACT INFORMATION

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### RESEARCH INTERESTS

#### **Natural Language Processing**

- Information Extraction, Dialogue Systems, Question answering

#### **Data Mining**

- Graph mining

#### **Machine Learning**

- Semi-supervised learning, Reinforcement learning

### EDUCATION

#### **Fudan University**, Shanghai, China

- Undergraduate, From Sep. 2015 to Jul. 2019
- GPA: 3.86/4.00, Ranking: 1/117
- Major GPA: 3.97/4.00

#### **National University of Singapore**, Singapore

- Non-graduating Exchange Student, From Aug. 2017 to Dec. 2017
- GPA: 4.00/4.00

### WORKING EXPERIENCE

#### **Microsoft Research Asia**, Beijing, China

Research Intern, From Jul. 2018 to Oct. 2018

- Advisor: Dr. Nan Duan, Dr. Ming Zhou

#### **Data Science Lab, JD.com**, Beijing, China

Research Intern, From Dec. 2017 to Feb. 2018

- Advisor: Dr. Zhaochun Ren, Dr. Dawei Yin

#### **Web Information Retrieval / Natural Language Processing Group (WING)**, National University of Singapore

Research Assistant, From Aug. 2017 to Dec. 2017

- Director: Wenqiang Lei, Dr. Min-Yen Kan

#### **Natural Language Processing Group**, School of Data Science, Fudan University

Research Assistant, From Oct. 2016 to present

- Director: Dr. Zhongyu Wei

### PUBLICATIONS

1. **Xisen Jin**, Wenqiang Lei, Hongshen Chen, Zhaochun Ren, Eric Zhao and Dawei Yin. Explicit State Tracking with Semi-Supervision for Neural Dialogue Generation, *CIKM 2018*, Full paper.

This work proposes a semi-supervised state tracking mechanism for both task-oriented-dialogue and non-task-oriented dialogue models. We propose a state tracking mechanism based on a text sequences and propose Copyflow Networks and posterior regularization for training. Our model achieves state-of-the-art performance in multiple datasets. Our model generates interpretable dialogue states with unsupervised learning.

2. Wenqiang Lei, **Xisen Jin**, Min-Yen Kan, Zhaochun Ren, Xiangnan He and Dawei Yin. Sequicity: Simplifying Task-oriented Dialogue Systems with Single Sequence-to-Sequence Architectures. *ACL 2018*. Full paper.

This work proposes a simplistic fully end-to-end trainable framework for task-oriented dialogue systems. It reduces model complexity by a magnitude, while significantly outperforms state-of-the-art pipeline based models. Specifically, our model guarantees strong out-of-vocabulary capability and task completion with a modified sequence-to-sequence structure and reinforcement learning.

#### WORKING PAPERS

1. **Xisen Jin**, Nan Duan, Zhongyu Wei, Ming Zhou. FARE: Incorporating Bidirectional Representation from Dialogue Logs for Response Generation.

This work propose FARE: Future Aware Retrieval Ensemble model. Our model learns how dialogues proceed with composed bidirectional representations of current and retrieved dialogues. We also show the effectiveness of deep multi-turn representation learned by task-specific pretraining.

#### SELECTED SCHOLARSHIPS AND AWARDS

(0-2%)National Scholarship for Undergraduates, 2016  
 (0-2%)National Scholarship for Undergraduates, 2017  
 (0-5%)Scholarship for computer science elite program, First Prize  
 16/1000 in Microsoft Beauty of Programming Contest: *Document and KB based question answering*, China, 2017

#### ABILITIES

Proficient in Python, PyTorch;  
 Familiar with C++, Java, Web and Mobile development;  
 105 for TOEFL IBT;  
 Independent research ability;  
 Communication skills, insights for problems and motivations for research;