

Xisen Jin

CONTACT INFORMATION

Department of Computer Science
University of Southern California, Los Angeles, US

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RESEARCH INTERESTS

Natural Language Processing, Machine Learning

- Continual Learning, Fairness, Interpretability

EDUCATION

University of Southern California, Los Angeles, US

- Ph.D. student in Computer Science, From Aug. 2019 - 2024 (expected)
- Advisor: Prof. Xiang Ren

Fudan University, Shanghai, China

- B.S. in Computer Science, From Sep. 2015 to Jul. 2019
- GPA: 3.75 / 4.00, Ranking: 1 / 117

National University of Singapore, Singapore

- Non-graduating Exchange Student, From Aug. 2017 to Dec. 2017
- GPA: 5.00 / 5.00

PREPRINTS

1. **Xisen Jin**, Francesco Barbieri, Aida Mostafazadeh Davani, Brendan Kennedy, Leonardo Neves, Xiang Ren. Efficiently Mitigating Classification Bias via Transfer Learning. Arxiv.

PUBLICATIONS

1. **Xisen Jin**, Junyi Du, Arka Sadhu, Ram Nevatia and Xiang Ren. Visually Grounded Continual Learning of Compositional Phrases. *EMNLP 2020*. Long paper.
2. **Xisen Jin**, Junyi Du, and Xiang Ren. Gradient Based Memory Editing for Task-Free Continual Learning. *4th Lifelong Learning Workshop@ICML 2020*.
3. Brendan Kennedy*, **Xisen Jin***, Aida Mostafazadeh Davani, Morteza Dehghani, and Xiang Ren. Contextualizing hate speech classifiers with post-hoc explanation. *ACL 2020*. Short paper. *Equal contribution.
4. **Xisen Jin**, Junyi Du, Zhongyu Wei, Xiangyang Xue and Xiang Ren. Towards Hierarchical Importance Attribution: Explaining Compositional Semantics for Neural Sequence Models, *ICLR 2020*, Spotlight.
5. **Xisen Jin**, Wenqiang Lei, Zhaochun Ren, Hongshen Chen, Shangsong Liang, Yihong Zhao and Dawei Yin. Explicit State Tracking with Semi-supervision for Neural Dialogue Generation, *CIKM 2018*, Full paper.
6. Wenqiang Lei, **Xisen Jin**, Zhaochun Ren, Xiangnan He, Min-Yen Kan and Dawei Yin. Sequicity: Simplifying Task-oriented Dialogue Systems with Single Sequence-to-Sequence Architectures. *ACL 2018*. Long paper.

RESEARCH EXPERIENCE

INK Research Lab, Los Angeles, US

PhD student, From Sep. 2019 to May. 2024 (expected)

- Advisor: Prof. Xiang Ren,
- On-going Research about continual learning algorithms; and their applications in NLP tasks for continual knowledge acquisition for solving knowledge-intensive tasks. We have 2 paper publications in the topic.

- Research on interpretation algorithms for model predictions and leveraging explanations for learning robust and fair models.

Snap Inc., Los Angeles, US

Research Intern, From May. 2020 to Aug. 2020

- Advisor: Dr. Francesco Barbieri, Leonardo Neves
- Research on obtaining an upstream pretrained language model that reduces classification bias in multiple downstream application when fine-tuned.

Microsoft Research Asia, Beijing, China

Research Intern, Natural Language Computing group, From Jul. 2018 to Oct. 2018

- Advisor: Dr. Nan Duan, Dr. Ming Zhou
- Research on retrieval-enhanced dialogue generation models.

Data Science Lab, JD.com, Beijing, China

Research Intern, From Dec. 2017 to Feb. 2018

- Advisor: Dr. Zhaochun Ren, Dr. Dawei Yin
- Research on semi-supervised and unsupervised state tracking for dialogue systems. Experimented on real JD.com customer service corpus and several crowd-sourced corpora. Research paper published at CIKM 2018.

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

Research Assistant, From Aug. 2017 to Dec. 2017

- Advisor: Prof. Min-Yen Kan
- Research on designing a simple framework for task-oriented dialogue system pipeline and improving out-of-vocabulary capability of models. Research paper published at ACL 2018.

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

Research Assistant, From Oct. 2016 to Jul. 2019

- Advisor: Prof. Zhongyu Wei
- Research on hierarchical explanation of neural network predictions.
- Research on text-based neural generative and discriminative speaker classifiers. Completed a funded undergraduate research project.

SELECTED
SCHOLARSHIPS
AND AWARDS

- Annenberg Fellowship, University of Southern California, 2019
- Honored Student of Computer Science Elite Program, Fudan University, 2019
- SIGIR Student Travel Grant, 2018
- Chinese National Scholarship, 2017
- First Prize, Fudan Scholarship for computer science elite program, 2017
- Chinese National Scholarship, 2016