



Xiaoya Li (李晓雅)

Shannon.AI

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Research Interests

My research interests lie at or near the intersection of machine learning, natural language processing, and linguistics. Some current topics of interest are:

1. Information extraction.
2. Machine translation.
3. Representation learning.

Education

Beijing University of Posts and Telecommunications (BUPT) 2014 - 2018
Bachelor Degree, Engineering of Internet of Things
Thesis: End-to-end Dialogue System for Movie Recommendations with Reinforcement Learning.
Advisor: Prof. Xiaojie Wang

Work And Research Experience

Shannon.AI 01/2019 - 09/2020; 12/2020-Now
NLP Research and Development Engineer
Topic: information extraction and machine translation.
Advisor: Dr. Jiwei Li

DeeplyCurious.AI 10/2017 - 01/2019
NLP Algorithm Engineer Intern
Topic: information extraction and text understanding.
Advisor: Yukun Yan, Dr. Zhengdong Lu

Beijing University of Posts and Telecommunications 07/2017 - 06/2018
Research Intern, Center for Intelligence Science and Technology
Topic: dialogue system for movie recommendations with reinforcement learning.
Advisor: Prof. Xiaojie Wang

Tsinghua University 10/2016 - 05/2017
Research Intern, Conversational AI(CoAI) Lab
Topic: sentiment analysis and dialogue system for restaurant services.
Advisor: Prof. Minlie Huang

Tsinghua University

06/2016 - 09/2016

Research Intern, State Key Lab of Intelligent Technology and Systems

Topic: Simultaneous Localization and Mapping algorithms in the automated driving system.

Advisor: Prof. Zhidong Deng

Publications

* indicates equal contribution.

Conference Proceedings

SAC: Accelerating and Structuring Self-Attention via Sparse Adaptive Connection.

Xiaoya Li*, Yuxian Meng*, Qinghong Han, Fei Wu and Jiwei Li

In NeurIPS 2020.

A Unified MRC Framework for Named Entity Recognition.

Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu and Jiwei Li.

In ACL 2020.

Dice Loss for Data-imbalanced NLP Tasks.

Xiaoya Li, Xiaofei Sun, Yuxian Meng, Junjun Liang, Fei Wu and Jiwei Li.

In ACL 2020.

Glyce: Glyph-vectors for Chinese Character Representations.

Yuxian Meng*, Wei Wu*, Fei Wang*, Xiaoya Li*, Ping Nie, Fan Yin, Muyu Li, Qinghong Han, Xiaofei Sun and Jiwei Li.

In NeurIPS 2019.

Is Word Segmentation Necessary for Deep Learning of Chinese Representations?

Yuxian Meng*, Xiaoya Li*, Xiaofei Sun, Qinghong Han, Arianna Yuan and Jiwei Li.

In ACL 2019.

Entity-Relation Extraction as Multi-Turn Question Answering.

Xiaoya Li, Fan Yin, Zijun Sun, Xiayu Li, Arianna Yuan, Duo Chai, Mingxin Zhou and Jiwei Li.

In ACL 2019.

Manuscripts

Improving Robustness and Generality of NLP Models Using Disentangled Representations.

Jiawei Wu, Xiaoya Li, Xiang Ao, Yuxian Meng, Fei Wu and Jiwei Li

arXiv

Analyzing COVID-19 on Online Social Media: Trends, Sentiments and Emotions.

Xiaoya Li, Mingxin Zhou, Jiawei Wu, Arianna Yuan, Fei Wu and Jiwei Li

arXiv

LAVA NAT: A Non-Autoregressive Translation Model with Look-Around Decoding and Vocabulary Attention.

Xiaoya Li, Yuxian Meng, Arianna Yuan, Fei Wu and Jiwei Li

arXiv

Large-scale Pretraining for Neural Machine Translation with Tens of Billions of Sentence Pairs.
Yuxian Meng*, Xiangyuan Ren*, Zijun Sun*, **Xiaoya Li**, Arianna Yuan, Fei Wu and Jiwei Li
arXiv

Undergraduate Projects

@HOME - An application of The IoT(Internet of Things) technique 05/2015 - 05/2016
Advisor: Prof. Xiaoguang Zhang

Websites Development for BUPT 2016 Modeling International Conference 03/2016 - 05/2016
Advisor: Prof. Li Cheng

Honors and Awards

Meritorious Winner in Mathematical Contest in Modeling (MCM), 2016

Beijing University of Posts and Telecommunications (BUPT) Scholarship, 2015/2016/2017

Excellent Student in Beijing University of Posts and Telecommunications (BUPT), 2017

Excellent Volunteer for Global Mobile Internet Conference (GMIC), 2016

Service

Reviewer: ACL-IJCNLP 2021