

Jinhao Jiang

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Education

Renmin University of China	Beijing, China
<i>Ph.D. Candidate in Artificial Intelligence</i> Advisor: Xin Zhao	09/2021 - present
University of Electronic Science and Technology of China	Chengdu, China
<i>Bachelor in Software Engineering</i> GPA:3.96/4.0 Rank:1/135	09/2017 – 06/2021

Projects

Knowledge Base Question Answering	02/2021 - present
<i>Renmin University of China</i> Advisor: Xin Zhao	
<ul style="list-style-type: none">○ We want to design a universal KBQA model which can transfer the multi-hop reasoning ability across different knowledge bases.○ In order to comprehensively organize the existing approaches, we first surveyed the papers for solving complex KBQA and I took charge of the information retrieval based methods. We finally completed a survey accepted in IJCAI 2021.○ I have tried using PLM and KGE to unify the input space and decouple the reasoning ability learning from representation learning, which obtained improvement comparing to many recent baselines.○ However, with ablation study, we found that the better question representation from PLM (e.g., RoBERTa) was the main reason for performance improvement, not the transferred reasoning ability. So, I am still focusing on the problem currently.	
Text Generation Library	09/2020 - 02/2021
<i>Renmin University of China</i> Advisor: Xin Zhao	
<ul style="list-style-type: none">○ This is an open-source text generation library supporting 21 baseline models within four categories including VAE, GAN, Pretrained Language Models and Seq2Seq models.○ I was responsible for writing some base classes for data pre-processing and loading. Besides, I implemented three GAN based text generation models, that are LeakGAN and MaskGAN. Finally, our demo was accepted in ACL 2021.○ With this project, I understood the details of GAN network. Besides, I also knew the basic idea about how to apply GAN into text generation and optimized them with reinforcement learning (RL).	
Open Domain Dialog System	01/2020 - 07/2020
<i>Renmin University of China</i> Advisor: Xin Zhao	
<ul style="list-style-type: none">○ We aim to design a multi-turn dialog system which generates responses keeping semantic consistent with previous turns.○ We adopted AMR (abstract meaning representation) to efficiently encode the history conversation as a graph and then translated the response generation into a graph-to-text problem.○ I pre-processed the dataset, reproduced many baselines and explored some graph-to-text generation strategies.	
Chinese Sentiment Analysis	07/2019 - 12/2019
<i>University of Electronic Science and Technology of China</i> Advisor: Jinyu Zhan	
<ul style="list-style-type: none">○ Freezing the lower 4 layers of BERT and leveraging the mean-max-pool strategy combined with L2 regularization and early stop, I obtained 1% improvement on test set compared to directly using #CLS# of BERT to represent a sentence and avoided overfitting when finetuned on a small downstream dataset.	

Honors and Awards

- 2021 **Outstanding Graduates of Sichuan Province** (winning ratio 3.7%), Education Department of Sichuan.

- 2020 **China National Scholarship** (top **1.5%**), Ministry of Education of the People's Republic of China.
- 2019 **China National Scholarship** (top **1.5%**), Ministry of Education of the People's Republic of China.
- 2019 **Meritorious Winner** (winning ratio **7.09%**) in Mathematical Contest In Modeling, the COMAP of American.
- 2018 **National Encouragement Scholarship** (top **5%**), Ministry of Education of the People's Republic of China.

Publications

TextBox: A Unified, Modularized, and Extensible Framework for Text Generation

- The 3rd author. *ACL 2021, System Demonstration*.

A Survey on Complex Knowledge Base Question Answering: Methods, Challenges and Solutions.

- The 2nd author. *IJCAI 2021, Survey Track*.

