

Jiaan Wang

Second-year NLP master student at the Soochow University

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Research Interests

(the **bold** denotes the tasks which I am most familiar with)

My research interests lie in Natural Language Processing (NLP) and Machine Learning. I have a broad interest in many NLP tasks. My recent work has focused on **Cross-Lingual Summarization** [1,2], **Dialogue Summarization** [2], **Sports Game Summarization** [3,5] and Story Generation [4] (see publications). Though most of my publications focus on Natural Language Generation (NLG), I also take interest in many Natural Language Understanding (NLU) tasks, such as machine reading comprehension and question answering (especially **multi-hop QA**, KBQA and commonsense QA). In my spare time, I also participated in my collaborators' work that spans Knowledge Graph Embedding [7] and Visual Dialogue [8].

Education

Soochow University

MASTER STUDENT, COMPUTER SCIENCE

Suzhou, China

Sept 2020 - Jun 2023 (Expected)

- Advisor: [Prof. Zhixu Li](#) (now at Fudan University)
- Ranking: 1/190

Soochow University

B.ENG, COMPUTER SCIENCE & ENGINEERING

Suzhou, China

Sept 2016 - Jun 2020

- Thesis Advisor: [Prof. Zhixu Li](#)
- GPA: 3.7/4.0 (total), Ranking: 8/200+

Publications

[1] [A Survey on Cross-Lingual Summarization](#)

Jiaan Wang, Fandong Meng, Duo Zheng, Yunlong Liang, Zhixu Li, Jianfeng Qu and Jie Zhou
arXiv preprint 2022.

- We comprehensively review the existing cross-lingual summarization work and carefully organize them.
- To the best of our knowledge, this survey first presents a thorough review of cross-lingual summarization.
- We suggest multiple promising directions to facilitate future research.

[2] [CLIDSUM: A Benchmark Dataset for Cross-Lingual Dialogue Summarization](#)

Jiaan Wang, Fandong Meng, Ziyao Lu, Duo Zheng, Zhixu Li, Jianfeng Qu and Jie Zhou
arXiv preprint 2022. [\[Data&Code\]](#)

- We introduce cross-lingual dialogue summarization (XLDS) task and present CLIDSUM, the first large-scale XLDS benchmark dataset.
- We propose the mDIALBART model that extends mBART-50 via the second pre-training stage. Our mDIALBART achieves the state-of-the-art performance on CLIDSUM.
- We elaborately build and evaluate various baselines of different paradigms and give multiple promising directions for future research.

[3] [Knowledge Enhanced Sports Game Summarization](#)

Jiaan Wang, Zhixu Li, Tingyi Zhang, Duo Zheng, Jianfeng Qu, An Liu, Lei Zhao and Zhigang Chen
In Proc. of WSDM 2022 (long paper). [\[Data&Code\]](#)

- We introduce K-SportsSum which is currently the highest quality and largest sports game summarization dataset.
- We propose knowledge-enhanced summarizer (KES) which take the information of knowledge corpus into account when generating sports news.
- Our KES achieves a new state-of-the-art performance on both K-SportsSum and SportsSum datasets.

[4] [Incorporating Commonsense Knowledge into Story Ending Generation via Heterogeneous Graph Networks](#)

Jiaan Wang, Beiqi Zou, Zhixu Li, Jianfeng Qu, Pengpeng Zhao, An Liu and Lei Zhao
In Proc. of DASFAA 2022 (long paper). [\[Code\]](#)

- We propose a Story Heterogeneous Graph Network for story ending generation. Our model explicitly considers the story context at different granularity levels and the multi-grained interactive relations among them.
- We design two auxiliary tasks to facilitate story comprehension.
- Extensive experiments on widely used ROCStories Corpus show that our model achieves new state-of-the-art performances.

- [5] [SportsSum2.0: Generating High-Quality Sports News from Live Text Commentary](#)
Jiaan Wang, Zhixu Li, Qiang Yang, Jianfeng Qu, Zhigang Chen, Qingsheng Liu and Guoping Hu
In Proc. of CIKM 2021 (short paper). [\[Data\]](#)
- SportsSum2.0 is the preliminary study of *Knowledge Enhanced Sports Game Summarization*.
 - In this work, we present SportsSum2.0 dataset together with a reranker-enhanced summarizer.
- [6] [Multi-Modal Chorus Recognition for Improving Song Search](#)
Jiaan Wang, Zhixu Li, Binbin Gu, Tingyi Zhang, Qingsheng Liu, Zhigang Chen
In Proc. of ICANN 2021 (long paper). [\[Code\]](#)
- We propose a novel task, i.e., Chorus Recognition, aiming at identifying the chorus of a given song. We model Chorus Recognition as a multi-modal task where both lyrics and tune of songs would be taken into account.
 - We construct CHORD, the first chorus recognition dataset.
 - We propose a novel multi-modal Chorus Recognition model, i.e., MMCR, which achieves the state-of-the-art performance on CHORD.
- [7] [Aligning Internal Regularity and External Influence of Multi-Granularity for Temporal Knowledge Graph Embedding](#)
Tingyi Zhang, Zhixu Li, **Jiaan Wang**, Jianfeng Qu, Lin Yuan, An Liu, Lei Zhao and Zhigang Chen
In Proc. of DASFAA 2022 (long paper).
- [8] [Enhancing Visual Dialog Questioner with Entity-based Strategy Learning and Augmented Guesser](#)
Duo Zheng, Zipeng Xu, Fandong Meng, Xiaojie Wang, **Jiaan Wang** and Jie Zhou
In Proc. of EMNLP Findings 2021 (long paper). [\[Code\]](#)

Internships

WeChat AI, Tencent Inc.

NLP RESEARCH INTERN (FULL TIME)

Beijing, China

2021.09 - Present

- Advised by [Dr. Fandong Meng](#)
- Research on cross-lingual summarization [1,2] and machine translation.

Knowledge Works Lab, Fudan University

NLP RESEARCH INTERN (PART TIME)

Remote

2021.09 - Present

- Advised by [Prof. Zhixu Li](#)
- Research on knowledge graph [7] and sports game summarization [3].

Fuxi AI Lab, NetEase Game

NLP ENGINEERING INTERN (FULL TIME)

Hangzhou, China

2021.06 - 2021.09

- Work with Cong Zhang, Linjian Zhang, Guanying Wang and Beiqi Zou
- Research on story ending generation [4] and other NLP/IR subtasks that could be used in games to enhance the players' game experience.
- Participate in the intelligent dialogue system of [Justice Online](#) (a MMORPG PC game) and [Wang Chuan Feng Hua Lu](#) (a MMO mobile game). Specifically, players can raise "children" in [Justice Online](#) and chat with their "children" through intelligent dialogue systems. The reply content of "children" can be influenced by age, character, gender, history dialogues, etc. For [Wang Chuan Feng Hua Lu](#), players can adopt cats and have conversations with them.

iFLYTEK AI Research

NLP RESEARCH INTERN (FULL TIME)

Suzhou, China

2019.10 - 2020.08 & 2021.03 - 2021.06

- Advised by [Prof. Zhixu Li](#)
- Research on text summarization, sports game summarization [3,5] and music summarization [6].

Awards

2021.10	National Scholarship , Ranking: 1/190	MOE, China
2020.10	The Grand Prize Scholarship , Ranking: 1/190	Soochow University
2020.06	Excellent Graduates , Top 5%	Soochow University
2019.09	Postgraduate Recommendation Qualification , Ranking: 8/200+	Soochow University
2019	The First-grade Innovation Scholarship , Top 5%	Soochow University
2019	The First-grade Scholarship , Top 10%	Soochow University
2018	The Second-grade Scholarship , Top 25%	Soochow University
2017	The First-grade Scholarship , Top 10%	Soochow University
2015	Provincial First Prize at Chinese Mathematics Olympiad , Ranking: 42nd in Shaanxi province	CMS
2014	Provincial First Prize at Chinese Mathematics Olympiad , Ranking: 16th in Shaanxi province	CMS

Skills

- Languages: Chinese (native), English (familiar), Korean (beginner)

- Programming: Python