Sijie **Cheng**

A Postgraduate Student

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"KEEP LOOKING, DO NOT SETTLE."

Education

Fudan University   *M.Sc. in Software Engineering*

Postgraduate Recommendation, National Scholarship   *Sept. 2020 - Jun. 2023*

Laboratory: Shanghai Key Laboratory of Data Science

Advisor: Prof. **Yanghua Xiao**

Thesis: ***Neural and Symbolic Representation of Knowledge***

Chongqing University of Posts and Telecommunications   *B.Sc. in Software Engineering*

Member of Excellent Engineer Class   *Sept. 2016 - Jun. 2020*

GPA: 3.75/4.00 (Top 1%)

Laboratory: Chongqing Key Laboratory of Computational Intelligence

Thesis: ***Analysis of Commonsense Knowledge in Pre-trained Language Model*** (Best Thesis Award)

Experience

Natural Language Processing Group · Pujiang Lab   *Research Intern*

Advisor: Prof. **Lingpeng Kong**   *Mar. 2022 - Now*

- Free-text Explanation for Reasoning

Institute for AI Industry Research · Tsinghua University   *Joint-Supervision*

Advisor: Prof. **Yang Liu**   *Jun. 2021 - Feb. 2022*

- Large Models as Continual Knowledge Bases

Natural Language Understanding Group · Meituan NLP Center   *Research Intern*

Manager: **Rui Xie**   *Nov. 2020 - Jun. 2021*

- Taxonomy Relational Knowledge Extraction

Text Intelligence Lab · Westlake University   *Visiting Fellow*

Advisor: Prof. **Yue Zhang**   *Sept. 2019 - Sept. 2020*

- Analysis of Commonsense Knowledge in Pre-trained Language Model

Deecamp (Acceptance: 4.28%) · Peking University   *Summer School*

Advisor: Dr. **Fuzheng Zhang**   *Jul. 2018 - Aug. 2018*

- Movie Recommendation with Knowledge Graph

Papers

[*] Unsupervised Explanation Generation via Correct Instantiations   *AAAI 2023*

Sijie Cheng, Zhiyong Wu, Jiangjie Chen, Zhixing Li, Yang Liu, Lingpeng Kong   *Under Review*

[*] FedGEMS: Federated Learning of Larger Server Models via Selective Knowledge Fusion   *Arxiv*

Sijie Cheng, Jingwen Wu, Yanghua Xiao, Yang Liu, Yang Liu   *Pre-printed*

[5] Learning What You Need from What You Did: Product Taxonomy Expansion with User Behavior Supervision   *ICDE 2022*

Sijie Cheng, Zhouhong Gu, Bang Liu, Rui Xie, Wei Wu, Yanghua Xiao   *Accepted*

[4] Can Pre-trained Language Models Interpret Similes as Smart as Human?   *ACL 2022*

Qianyu He*, **Sijie Cheng***, Zhixu Li, Rui Xie, Yanghua Xiao   *Accepted*

[3] Unsupervised Editing for Counterfactual Stories   *AAAI 2022*

Jiangjie Chen, Chun Gan, **Sijie Cheng**, Yanghua Xiao, Hao Zhou, Lei Li   *Accepted*

[2] On Commonsense Cues in BERT for Solving Commonsense Tasks   *ACL-IJCNLP Findings 2021*

Leyang Cui, **Sijie Cheng**, Yu Wu, Yue Zhang   *Accepted*

[1] NEARM: Natural Language Enhanced Association Rules Mining   *ICDM-Workshop 2018*

Shiya Ren, Zhixing Li, Huaming Wang, Yuan Li, Ke Shen, **Sijie Cheng**   *Accepted*

Invited Talks

Foundation, Construction and Application of Knowledge Graph   *July, 2021*

Tsinghua University, Beijing, China

Follow Your Heart: My Experience in Computer Science   *March, 2019*

Microsoft Research Asia, Beijing, China

Reviewing Service

2022   **AACL-IJCNLP Student Research Workshop**, Emergency Reviewer
2022   **NAACL Workshop on Deep Learning on Graphs for Natural Language Processing**, PC Member
2022   **International Conference on Machine Learning (ICML)**, Reviewer
2022   **ACL Workshop on Federated Learning for Natural Language Processing**, PC Member
2021-2022 **Empirical Methods in Natural Language Processing (EMNLP)**, Track Committee

Selected Honors & Awards

2021-2022 **National Scholarship**, Fudan University
2020-2022 **Academic Scholarship**, Fudan University
2020   **Best Bachelor Thesis Award**, Chongqing University of Posts and Telecommunications
2019   **4th Place**, Future Food Challenge in Tianchi
2018   **User Experience Award**, Google Girl Hackathon
2017   **Best Technology Award**, Google Innocamp
2016-2018 **Academic Scholar**, Chongqing University of Posts and Telecommunications
2006-2016 **1st Prize**, National Olympiad in Informatics in Provinces

Diversity & OpenSource

Opening Source Community (https://openingsource.org/)   *Online*

Co-founder & Principal of Female Community   *Apr. 2018 - Jun.2020*

- 1k+ community users, and average daily site visits up to 600.
- Our cooperative school association includes TUNA at Tsinghua University, OSA at Peking University, and so on.

MSRA Ada Workshop   *Microsoft Research Asia*

Invited as a student representative   *Dec. 2017 & March. 2019*

- Invited to share my experience before around 200 girls as one of two student delegates in 2019.
- Because of my previous out-performance as an non-local participant, MSRA specially set up 10 Travel Grants to subsidize non-local girls.

[0] Students Open Source Conference   *Chongqing University*

Co-organizer & Principal of sponsorship and women branch venue   *Jun. 2018*

- Over 400 students from all over the world attended, and more that 7,000 people watched it online.

Leadership

Microsoft Learn Student Ambassadors   *Jan.2020 - Dec.2020*

Member

Leiphone Fansub   *Oct. 2017 - Dec. 2019*

Excellent Translator & Team Leader

- About 300 volunteers all around the world.
- Proofread and translate multiple lectures, such as CS231n, Hugo Neural Network and so on.

Google Flutter x College Team   *Jan. 2019*

Organizer

- Help Google Flutter Team establish mirror images in Tsinghua University, Peking University and so on.