

# Sijie Cheng

A POSTGRADUATE STUDENT

No.220, Handan Road, Yangpu District, Shanghai, 200-433, P.R.China

☎ (+86)15216000764 | ✉ sjcheng20@fudan.edu.cn | 🏠 <https://adacheng.github.io/> | 📄 Google Scholar

“KEEP LOOKING, DO NOT SETTLE.”

## Education

### Fudan University

POSTGRADUATE RECOMMENDATION

Laboratory: Shanghai Key Laboratory of Data Science

Advisor: Prof. **Yanghua Xiao**

Thesis: *Neural and Symbolic Representation of Knowledge*

*M.Sc. in Software Engineering*

Sept. 2020 - Jun. 2023

### Chongqing University of Posts and Telecommunications

MEMBER OF EXCELLENT ENGINEER CLASS

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)

*B.Sc. in Software Engineering*

Sept. 2016 - Jun. 2020

## Experience

### Natural Language Processing Group · Pujiang Lab

ADVISOR: PROF. **LINGPENG KONG**

- Free-text Explanation for Reasoning

*Research Intern*

Mar. 2022 - Now

### Institute for AI Industry Research · Tsinghua University

ADVISOR: PROF. **YANG LIU**

- Large Models as Continual Knowledge Bases

*Joint-Supervision*

Jun. 2021 - Feb. 2022

### Natural Language Understanding Group · Meituan NLP Center

MANAGER: **RUI XIE**

- Taxonomy Relational Knowledge Extraction

*Research Intern*

Nov. 2020 - Jun. 2021

### Text Intelligence Lab · Westlake University

ADVISOR: PROF. **YUE ZHANG**

- Analysis of Commonsense Knowledge in Pre-trained Language Model

*Visiting Fellow*

Sept. 2019 - Sept. 2020

### Deecamp (Acceptance: 4.28%) · Peking University

ADVISOR: DR. **FUZHENG ZHANG**

- Movie Recommendation with Knowledge Graph

*Summer School*

Jul. 2018 - Aug. 2018

## Papers

### [\*] Unsupervised Explanation Generation via Correct Instantiations

SIJIE CHENG, ZHIYONG WU, JIANGJIE CHEN, ZHIXING LI, YANG LIU, LINGPENG KONG

*AAAI 2023*

*Under Review*

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

SIJIE CHENG, JINGWEN WU, YANGHUA XIAO, YANG LIU, YANG LIU

*Arxiv*

*Pre-printed*

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

SIJIE CHENG, ZHOUGHONG GU, BANG LIU, RUI XIE, WEI WU, YANGHUA XIAO

*ICDE 2022*

*Accepted*

### [4] Can Pre-trained Language Models Interpret Similes as Smart as Human?

QIANYU HE\*, SIJIE CHENG\*, ZHIXU LI, RUI XIE, YANGHUA XIAO

*ACL 2022*

*Accepted*

### [3] Unsupervised Editing for Counterfactual Stories

JIANGJIE CHEN, CHUN GAN, SIJIE CHENG, YANGHUA XIAO, HAO ZHOU, LEI LI

*AAAI 2022*

*Accepted*

### [2] On Commonsense Cues in BERT for Solving Commonsense Tasks

LEYANG CUI, SIJIE CHENG, YU WU, YUE ZHANG

*ACL-IJCNLP Findings 2021*

*Accepted*

## Invited Talks

### Foundation, Construction and Application of Knowledge Graph

TSINGHUA UNIVERSITY, BEIJING, CHINA

July, 2021

### Follow Your Heart: My Experience in Computer Science

MICROSOFT RESEARCH ASIA, BEIJING, CHINA

March, 2019

## Reviewing Service

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

2020-2021 Academic Scholar, 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/>)

CO-FOUNDER & PRINCIPAL OF FEMALE COMMUNITY

Online

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

INVITED AS A STUDENT REPRESENTATIVE

Microsoft Research Asia

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 a non-local participant, MSRA specially set up 10 Travel Grants to subsidize non-local girls.

### [0] Students Open Source Conference

CO-ORGANIZER & PRINCIPAL OF SPONSORSHIP AND WOMEN BRANCH VENUE

Chongqing University

Jun. 2018

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

## Leadership

### Microsoft Learn Student Ambassadors

MEMBER

Jan. 2020 - Dec. 2020

### Leiphone Fansub

EXCELLENT TRANSLATOR & TEAM LEADER

Oct. 2017 - Dec. 2019

- 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

ORGANIZER

Jan. 2019

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