

Renze Lou

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EDUCATION

Zhejiang University City College (ZUCC), Hangzhou, China

Sept 2018-Jul 2022

Bachelor of Engineering in Software Engineering GPA: 3.88/4.0 Average Score: 89.79/100 Rank: 2/66

SELECTED PUBLICATIONS

(* indicates equal contribution)

1. Yutong Wang*, **Renze Lou***, Kai Zhang*, Maoyan Chen and Yujiu Yang. MORE: A Metric Learning Based Framework for Open-Domain Relation Extraction. In ICASSP 2021.
 - Accomplish the whole paper writing and the rebuttal letter.
 - Study intensively in related fields, improve our methodology with VAT strategy, gain a better performance.
 - Lead and design all the experiments, complete most of the codes (90%).
2. Weicheng Ma*, Kai Zhang*, **Renze Lou**, Lili Wang and Soroush Vosoughi. Contributions of Transformer Attention Heads in Multi- and Cross-lingual Tasks. In ACL 2021 (**Long Oral**).
 - Participate in collecting massive NLP corpus and help design experiment settings.
 - Handle the NER task of our experiments. Help refine our algorithm according to the observation on head-masked distribution and some other unexpected results.
3. Weicheng Ma*, **Renze Lou***, Kai Zhang, Lili Wang and Soroush Vosoughi. GradTS: A Gradient-Based Automatic Auxiliary Task Selection Method Based on Transformer Networks. In EMNLP 2021.
 - Write the details of experiments, participate designing the paper layout, provide the materials used in paper.
 - Think up several intuitive control experiments to improve our experimental design.
 - Lead all the experiments, complete most of our codes and reproduce the strong closed-source baseline.

RESEARCH EXPERIENCE

Remote Research Intern. Minds, Machines and Society Group.

Dartmouth College

Advisor: [Soroush Vosoughi](#), [Google Scholar](#)

Oct 2020-Aug 2021

Remote Research Intern. Intelligent Computing Laboratory.

Tsinghua University

Advisor: [Yujiu Yang](#), [Research Gate](#)

Jun 2020-Oct 2020

Research Assistant. Institute of Artificial Intelligence.

Zhejiang University City College

Advisors: [Lin Sun](#), [Google Scholar](#) and [Minghui Wu](#), [Google Scholar](#)

May 2020-Mar 2021

WORK EXPERIENCE

Hangzhou Maixiang Health Technology Co., Ltd

Zhejiang, China

Jul 2021- Sept 2021

NLP Algorithm Intern

Research on the Application of Traditional Chinese Medical Knowledge Graph:

- Communicate with doctors of traditional Chinese medicine, capture their needs.
- Investigate related works and employ python to crawl data on the internet.
- Utilize our algorithm (the one accepted by ICASSP 2021) to detect noisy samples in clinical data.

PROJECTS

1. Research on Open Relation Extraction in Medical Therapeutic Recording

Leader; May 2021- May 2022

National Innovation Training Program for College Students (202113021002)

15,000 RMB

2. Research on Named Entity Recognition in Social Media

Member; May 2021-May 2022

National Innovation Training Program for College Students (202113021003)

15,000 RMB

SERVICES

External Reviewer: EMNLP 2021; IJCAI 2021; JIFS.

Leadership: Co-Founder of [CCAI](#) (the first institution for Artificial Intelligence at ZUCC).

Teaching Assistance: Deep Learning Application Development; Object-oriented Programming.

SKILLS

Programming: Python; \LaTeX ; Java; C/C++; Matlab.

Tools: Pytorch; Transformers (huggingface); Keras; Scikit-learn.