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: 2/67

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. **Renze Lou***, Fan Zhang*, Xiaowei Zhou, Yutong Wang, Minghui Wu, Lin Sun. A Unified Representation Learning Strategy for Open Relation Extraction with Ranked List Loss. In CCL 2021.
   - Define and scope the research problem and propose the idea of a unified representation learning Framework.
   - Complete all of our codes and run the experiments.
   - Finish the whole paper writing.

3. 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 the experimental 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.

4. 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.
   - Deal with all the experiments, complete most of our codes and reproduce the strong closed-source baseline.
   - Provide the details of experiments, participate in designing the experimental settings.

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

PROJECTS

1. Research on Open Relation Extraction in Medical Therapic 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

AWARDS

Zhejiang Provincial Government Scholarship (**3%**, awarded by Zhejiang Provincial Government)	2021
First Class Scholarship for Excellence in Scientific Research (**5%**, awarded by ZUCC)	2021
First Class Scholarship for Excellence in Competition Performance (**5%**, awarded by ZUCC)	2021
Second Class Scholarship for Academic Performance and Innovation (**5%**, awarded by ZUCC)	2020,2021
First Class Scholarship for Academic Performance and Innovation (**1%**, awarded by ZUCC)	2019

SERVICES

External Reviewer: EMNLP 2021; IJCAI 2021; JIFS.

Leadership: Co-Founder of CCAi (the first institution for Artificial Intelligence at ZUCC).

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

SKILLS

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

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