

Renze Lou

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EDUCATION

Pennsylvania State University, State College, USA
Ph.D., Computer Science and Engineering

Spring 2023-Present

RESEARCH FOCUS

Natural Language Processing (NLP) | Large Language Models (LLMs) | Generative AI | AI4Science | Instruction Tuning & Following | Language Agent

PUBLICATIONS (Citations: 783 | h-index: 11)

2025:

- Yusen Zhang, Wenliang Zheng, Aashrith Madasu, Peng Shi, Ryo Kamoi, Hao Zhou, Zhuoyang Zou, Shu Zhao, Sarkar Snigdha Sarathi Das, Vipul Gupta, Xiaoxin Lu, Nan Zhang, Ranran Haoran Zhang, Avitej Iyer, **Renze Lou**, Wenpeng Yin, Rui Zhang. HRScene: How Far Are VLMs from Effective High-Resolution Image Understanding? *arXiv Preprint 2025*.

2024:

- Renze Lou**, Hanzi Xu, Sijia Wang, Jiangshu Du, Ryo Kamoi, Xiaoxin Lu, Jian Xie, and et al. AAAR-1.0: Assessing AI's Potential to Assist Research. *ICML 2025*. (**Best Paper** @ AAAI 2025 AI4Research Workshop)
- Jiangshu Du, Yibo Wang, Wenting Zhao, Zhongfen Deng, Shuaiqi Liu, **Renze Lou**, and et al. LLMs Assist NLP Researchers: Critique Paper (Meta-)Reviewing. *EMNLP 2024*.
- Hanzi Xu, **Renze Lou**, Jiangshu Du, Vahid Mahzoon, Elmira Talebianaraki, Zhuoan Zhou, Elizabeth Garrison, Slobodan Vucetic, Wenpeng Yin. LLMs' Classification Performance is Overclaimed. *arXiv Preprint 2024*.
- Kexun Zhang, Weiran Yao, Zuxin Liu, Yihao Feng, Zhiwei Liu, Tian Lan, Lei Li, **Renze Lou**, and et al. Diversity Empowers Intelligence: Integrating Expertise of Software Engineering Agents. *ICLR 2025*.
- Xi Li, Yusen Zhang, **Renze Lou**, and et al. Chain-of-Scrutiny: Detecting Backdoor Attacks for Large Language Models. *ACL-Findings 2025*.
- Ryo Kamoi, Sarkar Snigdha Sarathi Das, **Renze Lou**, and et al. Evaluating LLMs at Detecting Errors in LLM Responses. *COLM 2024*.
- Jian Xie*, Kai Zhang*, Jiangjie Chen, Tinghui Zhu, **Renze Lou**, Yuandong Tian, Yanghua Xiao, Yu Su. TravelBench: Toward Real-world Planning for Language Agents. *ICML 2024*. (**Spotlight, 3.5%**)

2023:

- Renze Lou**, Kai Zhang, Jian Xie, Yuxuan Sun, Janice Ahn, Hanzi Xu, Yu Su, Wenpeng Yin. MUFFIN: Curating Multi-Faceted Instructions for Improving Instruction-Following. *ICLR 2024*.
- Jian Xie*, Kai Zhang*, Jiangjie Chen, **Renze Lou**, Yu Su. Adaptive Chameleon or Stubborn Sloth: Unraveling the Behavior of Large Language Models in Knowledge Conflicts. *ICLR 2024*. (**Spotlight, 5%**)
- Lin Sun*, Kai Zhang*, Qingyuan Li*, **Renze Lou**. UMIE: Unified Multimodal Information Extraction with Instruction Tuning. *AAAI 2024*. (**Oral**)

- **Renze Lou**, Kai Zhang, Wenpeng Yin. Large Language Model Instruction Following: A Survey of Progresses and Challenges. *Computational Linguistics* 2024.
- **Renze Lou** and Wenpeng Yin. Toward Zero-Shot Instruction Following. *SRW@EACL* 2024.
- Janice Ahn, RISHU VERMA, **Renze Lou**, Di Liu, Rui Zhang, Wenpeng Yin. Large Language Models for Mathematical Reasoning: Progresses and Challenges. *SRW@EACL* 2024.

2022:

- Xiaojie Gu, **Renze Lou**, Lin Sun, Shangxin Li. PAGE: A Position-Aware Graph-Based Model for Emotion Cause Entailment in Conversation. *ICASSP* 2023.
- Yuanhe Tian, **Renze Lou**, Xiangyu Pang, Lianxi Wang, Shengyi JIANG and Yan Song. Improving English-Arabic Transliteration with Phonemic Memories. *EMNLP-Findings* 2022.

2021:

- Weicheng Ma, **Renze Lou**, Kai Zhang, Lili Wang and Soroush Vosoughi. GradTS: A Gradient-Based Automatic Auxiliary Task Selection Method Based on Transformer Networks. *EMNLP* 2021.
- Weicheng Ma*, Kai Zhang*, **Renze Lou**, Lili Wang and Soroush Vosoughi. Contributions of Transformer Attention Heads in Multi- and Cross-lingual Tasks. *ACL* 2021. (Oral)
- **Renze Lou***, Yutong Wang*, Kai Zhang*, Maoyan Chen and Yujiu Yang. MORE: A Metric Learning Based Framework for Open-Domain Relation Extraction. *ICASSP* 2021.
- **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. *CCL* 2021.

WORK EXPERIENCE

AI Research Intern @ Salesforce
05/20/2024- 08/16/2024

Palo Alto, CA

- Large language models, Agents, and Code Generation.

RESEARCH EXPERIENCE

Research Assistant. College of Engineering.	<u>Penn State University & Temple University</u>
Advisor: Wenpeng Yin	Sept. 2022-Present
Research Assistant. School of Data Science.	<u>The Chinese University of HongKong (Shenzhen)</u>
Advisor: Yan Song	Oct 2021-Jun 2022
Remote Research Intern. Minds, Machines and Society Group.	<u>Dartmouth College</u>
Advisor: Soroush Vosoughi	Oct 2020-Aug 2021
Remote Research Intern. Intelligent Computing Laboratory.	<u>Tsinghua University</u>
Advisor: Yujiu Yang	Jun 2020-Oct 2020
Research Assistant. Institute of Artificial Intelligence.	<u>Zhejiang University City College (ZUCC)</u>
Advisors: Lin Sun and Minghui Wu	May 2020-Mar 2021

AWARDS

Best Research Assistant (awarded by PSU)	2025
Outstanding Technical Contribution Grant for OpenVINO (awarded by Intel)	2022
Outstanding Graduates of Zhejiang Province (3%, awarded by Zhejiang Provincial Government)	2022
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

Tutorial & Workshop Organizer: SciCap Challenge @ IJCAI 2024; IF Tutorial @ EMNLP 2025.

Area Chair: AI4Research Workshop @ AAAI 2025.

Reviewer: ICCV (since 2025); COLM (since 2025); ICLR(since 2024); ACL Rolling Review (since 2022); Instruction Workshop @ NeurIPS 2023; UDM @ KDD 2023; ToM @ ICML 2023; StarSEM (since 2023); AKBC 2022; NLPCC 2023; CCL 2023; IJCAI 2021; JISF.