

Renze Lou

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EDUCATION

Pennsylvania State University , State College, USA Ph.D., Computer Science and Engineering	2023-Present
Pennsylvania State University , State College, USA M.S., Computer Science and Engineering	2023-2025
Zhejiang University City College (ZUCC) , Hangzhou, China B.Eng., Computer Science and Engineering	2018-2022

RESEARCH FOCUS

Large Language Models | Instruction-Tuning | Post-Training | GUI Web Agents | Tool-using Agent | AI4Science

WORK EXPERIENCE

Research Scientist Intern @ Microsoft Research <i>Jun 2025 – Sep 2025</i> Web agent research with tool-use for efficient and robust web automation.	Redmond, WA
Research Scientist Intern @ Salesforce Research <i>May 2024 – Aug 2024</i> Developed an LLM-based coding agent system for automated software engineering tasks.	Palo Alto, CA

PUBLICATIONS (Citations: 1,777 | h-index: 12)

2025 & 2026:

- **Renze Lou**, Baolin Peng, Wenlin Yao, Qianhui Wu, Wenpeng Yin, and Suman Nath. The Tool Illusion: Rethinking the Dual Effects of Tools in Grounded Web Agents. *Under review at COLM 2026.*
- Zhihan Zhang, **Renze Lou**, Fangkai Jiao, Wenpeng Yin, and Meng Jiang. Advancing Language Models through Instruction Tuning: Recent Progress and Challenges. *Tutorial @ EMNLP 2025.*
- Guanlin He, **Renze Lou**, Wenpeng Yin, and et al. The Myth of Local Differential Privacy in Prompt-based Text Sanitization. *arXiv 2025.*
- Xiaojie Gu, Ziyang Huang, Weicong Hong, Jian Xie, **Renze Lou**, and Kai Zhang. Surface Compliance or Genuine Memory Change? Rethinking Evaluation and Conflict in Knowledge Editing. *arXiv 2025.*
- Yusen Zhang, Wenliang Zheng, ..., **Renze Lou**, Wenpeng Yin, Rui Zhang. HRScene: How Far Are VLMs from Effective High-Resolution Image Understanding? *ICCV 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*.

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: EMNLP 2025; AI4Research @ AAAI 2025; SEA @ NeurIPS 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.