Ziqi **Wang**

PH.D. STUDENT AT UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN IN CS

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Education

University of Illinois Urbana-Champaign	*Champaign, IL*
PH.D. IN COMPUTER SCIENCE	*Aug. 2021 - Present*

- Member of Blender Lab under the supervision of Prof. Heng Ji and Prof. Tong Zhang

University of Illinois Urbana-Champaign	*Champaign, IL*
M.S. IN COMPUTER SCIENCE	*Aug. 2021 - Dec. 2023*

- Member of Blender Lab under the supervision of Prof. Heng Ji

Tsinghua University	*Beijing, China*
B.E. IN COMPUTER SCIENCE AND TECHNOLOGY	*Aug. 2016 - May. 2021*

- Member of THUNLP under the supervision of Prof. Zhiyuan Liu
- Magna Cum Laude

Selected Publications

* denotes equal contribution. See full publications in Google Scholar

- **Ziqi Wang**, Hanlin Zhang, Xiner Li, Kuan-Hao Huang, Chi Han, Shuiwang Ji, Sham M Kakade, Hao Peng, Heng Ji. *Eliminating Position Bias of Language Models: A Mechanistic Approach*. **Preprint 2024**
- Wei Xiong*, Hanze Dong*, Chenlu Ye*, **Ziqi Wang**, Han Zhong, Heng Ji, Nan Jiang, Tong Zhang. *Iterative Preference Learning from Human Feedback: Bridging Theory and Practice for RLHF under KL-Constraint*. **ICML 2024, Oral** at ICLR 2024 ME-FoMo Workshop
- **Ziqi Wang**, Le Hou, Tianjian Lu, Yuexin Wu, Yunxuan Li, Hongkun Yu, Heng Ji. *Enabling Language Models to Implicitly Learn Self-Improvement From Data*. **ICLR 2024**
- **Ziqi Wang**, Yuexin Wu, Frederick Liu, Daogao Liu, Le Hou, Hongkun Yu, Jing Li, Heng Ji. *Augmentation with Projection: Towards an Effective and Efficient Data Augmentation Paradigm for Distillation*. **ICLR 2023**
- Xiao Li*, **Ziqi Wang***, Bo Zhang, Fuchun Sun, Xiaolin Hu. *Recognizing Object by Components with Human Prior Knowledge Enhances Adversarial Robustness of Deep Neural Networks*. **IEEE TPAMI 2023**
- **Ziqi Wang***, Xiaozhi Wang*, Xu Han, Yankai Lin, Lei Hou, Zhiyuan Liu, Peng Li, Juanzi Li, Jie Zhou. *CLEVE: Contrastive Pre-training for Event Extraction*. **ACL-IJCNLP 2021**
- **Ziqi Wang***, Yujia Qin*, Wenxuan Zhou, Jun Yan, Qinyuan Ye, Leonardo Neves, Zhiyuan Liu, Xiang Ren. *Learning from Explanations with Neural Execution Tree*. **ICLR 2020 (Poster)**
- Wenxuan Zhou, Hongtao Lin, Bill Yuchen Lin, **Ziqi Wang**, Junyi Du, Leonardo Neves, Xiang Ren. *NERO: A Neural Rule Grounding Framework for Label-Efficient Relation Extraction*. **WWW 2020 (Best Paper Runner-Up, 2/1500+)**
- Xiaozhi Wang*, **Ziqi Wang***, Xu Han, Zhiyuan Liu, Juanzi Li, Peng Li, Maosong Sun, Jie Zhou, Xiang Ren. *HMEAE: Hierarchical Modular Event Argument Extraction*. **EMNLP-IJCNLP 2019 (Short, Oral)**

Work Experience

Meta	*Menlo Park, CA*
RESEARCH INTERN	*May. 2024 - Aug. 2024*

- Working on Large Vision-Language Models (VLMs) and Large Language Models (LLMs) Reasoning through Reinforcement Learning (RL).

University of Illinois Urbana-Champaign	*Champaign, IL*
RESEARCH ASSISTANT	*Aug. 2021 - Present*

- Working on LLMs reasoning from the perspective of RL and model architectures. Advisor: Prof. Heng Ji and Prof. Tong Zhang.

Google	*Sunnyvale, CA*
SOFTWARE ENGINEERING INTERN	*May. 2023 - Aug. 2023*

- Working on large language model self-improvement through RL with Dr. Le Hou and Dr. Yuexin Wu

Google	*Bellevue, WA and Remote*
SOFTWARE ENGINEERING INTERN AND STUDENT RESEARCHER	*May. 2022 - Dec. 2022*

- Working on data-efficient learning with Dr. Yuexin Wu and Dr. Le Hou

University of Southern California	*Los Angeles, CA*
RESEARCH ASSISTANT	*July. 2019 - Sep. 2019*

- Working on neuro-symbolic learning under the supervision of Prof. Xiang Ren

Tsinghua University

Beijing, China

RESEARCH ASSISTANT

Dec. 2018 - May. 2021

- Working on event extraction under the supervision of Prof. Zhiyuan Liu
- Working on vision robustness under the supervision of Prof. Xiaolin Hu
- Working on dialogue understanding/generation under the supervision of Prof. Minlie Huang

Talks

Objective, Inc.   *2023*

- Introduce model self-improvement work.

Honors & Awards

2021	Magna Cum Laude	*Tsinghua University*
2020	Scholarship for Outstanding Research Performance	*Tsinghua University*
20(17-20)	Scholarship for Outstanding Academic Performance	*Tsinghua University*
2017	Scholarship for Outstanding Social Work Performance	*Tsinghua University*
2017	Scholarship for Comprehensive Excellence	*Tsinghua University*

Service

Reviewer: ICLR, NeurIPS, ICML, ACL, EMNLP, NAACL, COLM, Pattern Recognition