

# Ziqi Wang

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

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## Education

### University of Illinois Urbana-Champaign

PH.D. IN COMPUTER SCIENCE

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

Champaign, IL

Aug. 2021 - Present

### University of Illinois Urbana-Champaign

M.S. IN COMPUTER SCIENCE

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

Champaign, IL

Aug. 2021 - Dec. 2023

### Tsinghua University

B.E. IN COMPUTER SCIENCE AND TECHNOLOGY

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

Beijing, China

Aug. 2016 - May. 2021

## 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

RESEARCH INTERN

- Working on self-improvement of Large Vision-Language Models.

Menlo Park, CA

May. 2024 - Aug. 2024

### University of Illinois Urbana-Champaign

RESEARCH ASSISTANT

- Working on making AI models as independent research to push the knowledge discovery process of humanity. Advisor: Prof. Heng Ji.

Champaign, IL

Aug. 2021 - Present

### Google

SOFTWARE ENGINEERING INTERN

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

Sunnyvale, CA

May. 2023 - Aug. 2023

### Google

SOFTWARE ENGINEERING INTERN AND STUDENT RESEARCHER

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

Bellevue, WA and Remote

May. 2022 - Dec. 2022

### University of Southern California

RESEARCH ASSISTANT

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

Los Angeles, CA

July. 2019 - Sep. 2019

- 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

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### Objective, Inc.

2023

- Introduce model self-improvement work.

## Honors & Awards

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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

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

## Projects

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Only open-sourced projects are presented

### Covid-19 Claim Radar

Vue.js, Go

ACL 2023 SYSTEM DEMONSTRATION

2022

- An interactive website that shows different claims related to Covid-19 with structured information (e.g., entity, event, argument, sources)
- Url: <https://blenderdemo.com>

### Covid-19 News App

Java, Android

COURSE PROJECT

2020

- Project repo: <https://github.com/wzq016/COVID-NewsApp>
- An android app that can search/view/share COVID-19 news
- Statistical histogram of COVID-19, Encyclopedia and knowledge graphs of COVID-19
- Encyclopedia of pioneers in the fight against the COVID-19

### MIPS32 CPU

Verilog

COURSE PROJECT

2019

- Project repo (Chinese): <https://github.com/wzq016/MIPS-CPUer>
- Supports around 30 kinds of basic and interruptive MIPS32 instructions.
- Supports several peripherals including DVI video output and flash storage.
- Built a fixed-point numerical system and a three-body problem simulator/visualizer in MIPS assembly.

### GIF Search System Design

Vue.js, Go

COURSE PROJECT

2019

- Project repo (Chinese, backend): <https://github.com/wzq016/GIF-search-system-backend>
- Project repo (Chinese, frontend): <https://github.com/wzq016/GIF-search-system-frontend>
- Design a system that supports searching GIFs on the web and recommending GIFs based on user action.