Zihan Wang

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Education Experience

Northwestern University — Evanston. IL
PhD Candidate — Sep 2024 - Now
Advisor: Manling Li

University of California, Berkeley — Berkeley, CA
Exchange Student — Aug 2022 - Dec 2022
GPA: 4.00/4.00
Relevant Coursework: Deep Learning, Reinforcement Learning*, Artificial Intelligence

Renmin University — Beijing, China
B.S. Engineering — Sep 2020 - Jun 2024

Internship Experience

DeepSeek AI — Beijing, China
Research Intern — Feb 2024 - July 2024
- **Mentors**: Deli Chen, Damai Dai, Yu Wu.
- **Topic**: Training Efficiency of Mixture-of-Experts Models.

Stanford University — Stanford, CA (online)
Research Intern — Sep 2023 - Dec 2023
- **Advisor**: Weiyan Shi and Liang Qiu.
- **Topic**: Fine-grained Language Model Personality Control.

University of Illinois, Urbana-Champaign — Champaign, IL
Research Intern — Jun 2023 - Sep 2023
- **Advisor**: Heng Ji and Xingyao Wang.
- **Topic**: Learning from Interactions for Language Models.

Renmin University — Beijing, China
Research Intern — Jun 2021 - Jun 2024
- **Advisor**: Zhicheng Dou
- **Topic**: Generative Retrieval and Retrieval Augmented Generation.

Research Interest

Language Agents:
   Interaction with Language Feedback, Long-Context Understanding
Model Efficiency:
   Mixture-of-Experts Models, Parameter-Efficient Fine-Tuning

Publication List (Scholar Page)

1. **Zihan Wang**, Deli Chen, Damai Dai, Runxin Xu, Zhuoshu Li, Yu Wu. Let the Expert Stick to His Last: Expert-Specialized Fine-Tuning for Sparse Architectural Large Language Models, **EMNLP 2024**. (Paper and Code. **Star: 140+**)

2. Xingyao Wang*, **Zihan Wang***, Jiateng Liu, Yangyi Chen, Lifan Yuan, Hao Peng, Heng Ji. MINT: Evaluating LLM in Multi-turn Interaction with Tools and Language Feedback, **ICLR, 2024**. (Paper and Code. **Star: 100+**)

3. DeepSeek AI (157 authors including **Zihan Wang**). DeepSeek-V2: A Strong, Economical, and Efficient Mixture-of-Experts Language Model. (Paper and Code. **Star: 3,500+**)

4. **Zihan Wang**, Yujia Zhou, Yiteng Tu, Zhicheng Dou. NOVO: Learnable and Interpretable Document Identifiers for Model-Based IR, **CIKM 2023**. (**Oral presentation**. Paper)

5. Jiongnan Liu, Jiajie Jin, **Zihan Wang**, Jiehan Cheng, Zhicheng Dou, Ji-Rong Wen. RetaLLM: A Retrieval-Augmented Large Language Model Toolkit. (Paper and Code. **Star: 200+**)

6. **Zihan Wang**, Hongjin Qian, Zhicheng Dou. Learning on Structured Documents for Conditional Question Answering, *CCL 2023*. (Paper)

Honors and Awards

- McCormick School of Engineering Fellowship, *Northwestern University.*   2024

- Baosteel Outstanding Student Award (Special Scholarship, **7/30000**+ in RUC). *Baosteel Education Fund.*   2023

- Honorable Awards (Top 10%). *CCF Big Data and Computing Intelligence Contest.*   2022

- Academic Excellence Award (Top 3% GPA). *Renmin University.*   2021

- Merit Student Award. *Renmin University.*   2021

- First Prize. *Contemporary Undergraduate Mathematical Contest in Modeling.*   2021

- Honorable Mention. *Mathematical Contest in Modeling and Interdisciplinary Contest in Modeling.*   2021

Invited Talks and Presentations

LLM Agents with Language Feedback
Chinese R Conference   2023.11
Retrieval Augmented Language Models and Applications
RUC Science and Technology Fair   2023.05
Large Language Models and Applications
Capital of Statistics   2023.03
Pre-trained Language Models and Applications
RUC Mingli College   2023.01

Professional Service

- **Reviewer**: EMNLP 2024 System & Demo, ICLR 2025 (external)

- **Session Organization**: Session of Language Models & Agents in Chinese R Conference 2023

- **Academic Advisor**: National University Student Innovation Program (2023, No. 3)