

# Xinyu Zhao

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## RESEARCH INTEREST

### Efficient and Reliable ML

- Improving scaling efficiency (via MoE, merging) in LLM and Multimodal LLM
- Building trustworthy LLM agent system for healthcare applications

## EDUCATION

### University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Aug 2024 – Present

- Ph.D. in Computer Science
  - Advisor: [Prof. Tianlong Chen](#)

### Peking University, Beijing, China

Sep 2021 – Jun 2024

- Master in Computer Technology (GPA: 3.52/4)

### Huazhong University of Science and Technology, Wuhan, China

Sep 2017 – Jun 2021

- B.A. in Translation and Interpreting (GPA: 3.99/4)
- Minor in Computer Science & Technology

## PUBLICATIONS

(\*: Equal contribution)

### CONFERENCES

Model-GLUE: Democratized LLM Scaling for A Large Model Zoo in the Wild

**Xinyu Zhao\***, Guoheng Sun\*, Ruisi Cai\*, Yukun Zhou\*, Pingzhi Li\*, Peihao Wang\*, Bowen Tan, Yexiao He, Li Chen, Yi Liang, Beidi Chen, Binhang Yuan, Hongyi Wang, Ang Li, Zhangyang Wang, Tianlong Chen

NeurIPS 2024 Dataset and Benchmark

MoE-RBench: Towards Building Reliable Language Models with Sparse Mixture-of-Experts

Guanjie Chen\*, **Xinyu Zhao\***, Tianlong Chen, Yu Cheng

ICML 2024

Sparse MoE with Language-Guided Routing for Multilingual Machine Translation

**Xinyu Zhao**, Xuxi Chen, Yu Cheng, Tianlong Chen

ICLR 2024

Enhancing Baidu Multimodal Advertisement with Chinese Text-to-Image Generation

Kang Zhao\*, **Xinyu Zhao\***, Zhipeng Jin, Yi Yang, Wen Tao, Cong Han, Shuanglong Li, Lin Liu

SIGIR 2024 Industry Track

Scaling Vision-Language Foundation Model to 12 Billion Parameters

**Xinyu Zhao\***, Kang Zhao\*, Zhipeng Jin, Yi Yang, Wen Tao, Xiaodong Chen, Cong Han, Shuanglong Li, Lin Liu

CIKM 2024 Applied Research Papers

Multi-Stage Refined Visual Captioning for Baidu Ad Creatives Generation

Yi Yang, **Xinyu Zhao**, Kang Zhao, Zhipeng Jin, Wen Tao, Lin Liu, Shuanglong Li

CIKM 2024 Short

Enhancing Dynamic Image Advertising with Vision-Language Pre-training

Zhoufutu Wen\*, **Xinyu Zhao\***, Zhipeng Jin, Yi Yang, Wei Jia, Xiaodong Chen, Shuanglong Li, Lin Liu

SIGIR 2023 Industry Track

## RESEARCH EXPERIENCES

### The University of North Carolina at Chapel Hill, Chapel Hill, NC

Jun 2023 – Jun 2024

- Remote Research Intern, mentored by [Dr. Tianlong Chen](#)

### Baidu, Beijing, China

Nov 2022 – Jun 2023

- Algorithm Engineer Intern in Baidu Search Ads.

## AWARDS & SCHOLARSHIPS

### Awards

- Outstanding Graduate of Huangzhong University of Science and Technology

2021

### Scholarships

- Baosteel Scholarship

2020

- China National Scholarship

2019

## PROFESSIONAL SERVICES

### Reviews

- Conference on Neural Information Processing Systems (NeurIPS) 2024
- Tutorials**
- International Conference on Machine Learning (ICML) 2024