

Weiqing Luo

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EDUCATION

Nanjing University

M.Sc. in Computer Science

Advised by [Prof. Gong Cheng](#)

Sep 2022 – Jun 2025

GPA: 90.83/100

Nanjing University

B.Sc. in Computer Science

Selected for the Elite Program in Computer Science

Sep 2018 – Jun 2022

GPA: 4.45/5.0

RESEARCH INTERESTS

My research focuses on **vision-language modeling** and **data-centric methods**. Currently, I am working on enhancing multimodal large language models, specifically tackling challenges in adapting to varied image resolutions. I have previously contributed to projects on recommender systems and dataset retrieval, utilizing knowledge graphs and information retrieval techniques. I am always open to exploring new ideas and research directions.

EXPERIENCE

The University of North Carolina at Chapel Hill

UNITES Lab, Research Assistant

Remote

Jun 2024 – Oct 2024

- Conducted research on adapting visual large language models (VLLMs) to handle various input image resolutions, under the supervision of [Prof. Tianlong Chen](#).
- Results documented in a manuscript submitted to the ACL Rolling Review.

Tencent

WeChat Machine Learning Application Group, Research Intern

Shenzhen, China

Jul 2023 – May 2024

- Developed LLM-driven methods to improve recommender systems, successfully deployed within the WeChat Subscriptions platform.
- Published key findings in a [preprinted paper](#).

SenseTime

Decision Intelligence Group, Research Intern

Shenzhen, China

Jan 2022 – Jul 2022

- Participated in the development of [DI-engine](#), a general decision intelligence engine.
- Assisted in reinforcement learning research on complex action space.

ByteDance

TikTok Recommendation Group, Backend Engineer Intern

Shanghai, China

Jul 2021 – Sep 2021

- Developed and maintained an in-house dashboard debugger.
- Assisted in improving the stability of TikTok's live streaming services.

PUBLICATIONS

Task-Aware Resolution Optimization for Visual Large Language Models

[Weiqing Luo](#), Zhen Tan, Yifan Li, Xinyu Zhao, Kwonjoon Lee, Behzad Dariush, Tianlong Chen.
(ACL ARR Under Review)

An Empirical Investigation of Implicit and Explicit Knowledge-Enhanced Methods for Ad Hoc Dataset Retrieval

The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023), findings.
[Weiqing Luo](#), Qiaosheng Chen, Zhiyang Zhang, Zixian Huang, Gong Cheng. [\[paper\]](#)

TRAWL: External Knowledge-Enhanced Recommendation with LLM Assistance

Preprint 2024.

[Weiqing Luo](#), Chonggang Song, Lingling Yi, Gong Cheng. [\[paper\]](#)

ACORDAR 2.0: A Test Collection for Ad Hoc Dataset Retrieval with Densely Pooled Datasets and Question-Style Queries

The 47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2024).

Qiaosheng Chen, [Weiqing Luo](#), Zixian Huang, Tengting Lin, Xiaxia Wang, Ahmet Soylu, Basil Ell, Baifan Zhou, Evgeny Kharlamov, Gong Cheng. [\[paper\]](#)

Benchmarking Recommendation, Classification, and Tracing Based on Hugging Face Knowledge Graph

The 48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2025).

Qiaosheng Chen, Kaijia Huang, Xiao Zhou, [Weiqing Luo](#), Yuanning Cui, Gong Cheng.

Dense Re-Ranking with Weak Supervision for RDF Dataset Search

*The 22nd International Semantic Web Conference (ISWC 2023 **Best Research Paper Nominee**).*

Qiaosheng Chen, Zixian Huang, Zhiyang Zhang, [Weiqing Luo](#), Tengting Lin, Qing Shi, Gong Cheng. [\[paper\]](#)

CKGSE: A Prototype Search Engine for Chinese Knowledge Graphs.

Data Intelligence (DI 2022).

Xiaxia Wang, Tengting Lin, [Weiqing Luo](#), Gong Cheng, Yuzhong Qu. [\[paper\]](#)

(Completed during undergraduate studies)

Content-Based Open Knowledge Graph Search: A Preliminary Study with OpenKG.CN

Proceeding of the 2021 China Conference on Knowledge Graph and Semantic Computing (CCKS 2021).

Xiaxia Wang, Tengting Lin, [Weiqing Luo](#), Gong Cheng, Yuzhong Qu. [\[paper\]](#)

(Completed during undergraduate studies)

SELECTED AWARDS & ACHIEVEMENTS

Outstanding Graduate Student of Nanjing University (Dec 2023 – Dec 2024)

First Prize of Graduate Talent Scholarship: Awarded to outstanding graduate students who demonstrate exceptional academic and research performance. (Nov 2024)

Academic Scholarship for Master Students: Awarded to graduate students who have achieved outstanding academic results by Nanjing University. (Nov 2022 – Nov 2023)

Elite Program Scholarship: Awarded to students who have achieved a high GPA in the elite program by Nanjing University. (Nov 2019 – Nov 2021)

Undergraduate Outstanding Thesis: Awarded to Bachelor alumni whose thesis is of outstanding quality by Nanjing University. (Jun 2022)

SKILLS

Languages: Python, C/C++, Java, TypeScript, SQL

Technologies: PyTorch, TensorFlow, MySQL, Node.js, React.js, Git, Docker, Kubernetes