

Weiying Luo

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EDUCATION

Nanjing University

MA.Sc. in Computer Science

Advised by [Prof. Gong Cheng](#)

Sep 2022 – Jun 2025

GPA: 91.7/100

Nanjing University

B.Sc. in Computer Science

Enrolled in Elite Class

Sep 2018 – Jun 2022

GPA: 88.6/100

RESEARCH INTERESTS

My research interests include neural retrieval methods and retrieval-augmented generation (RAG): 1) how to design better retrieval methods to enhance RAG performance, and 2) how to utilize RAG for downstream applications (e.g. recommendation systems).

EXPERIENCE

Tencent

Researcher

Shenzhen, China

Jul 2023 – Present, Internship

- Conducted research on LLM-based recommendation algorithms, applied to WeChat Subscriptions.
- The research results are summarized in a [preprinted paper](#).

SenseTime

Researcher

Shenzhen, China

Jan 2022 – Jul 2022, Internship

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

ByteDance

Backend Engineer

Shanghai, China

Jul 2021 – Sep 2021, Internship

- Responsible for developing and maintaining an in-house Debug dashboard.
- Assisted in improving the stability of TikTok's live streams.

PUBLICATIONS

KELLMRec: Knowledge-Enhanced Large Language Models for Recommendation

Preprint 2024.

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

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.

[Weiying Luo](#), Qiaosheng Chen, Zhiyang Zhang, Zixian Huang, Gong Cheng. [\[paper\]](#)

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, [Weiying Luo](#), Tengting Lin, Qing Shi, Gong Cheng. [\[paper\]](#)

SELECTED AWARDS & ACHIEVEMENTS

Outstanding Graduate Student of Nanjing University (Dec 2023)

Academic Scholarship for Master Students: Awarded to graduate students who have achieved outstanding research 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 are 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