

# Weiying Luo

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## EDUCATION

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### 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

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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

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### Tencent

Wechat Machine Learning Application Group, 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

Decision Intelligence Group, 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

TikTok Recommendation Group, Backend Engineer

Shanghai, China

Jul 2021 – Sep 2021, Internship

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

## PUBLICATIONS

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### 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. [\[URL to be added\]](#)

### 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. [\[paper\]](#)

## **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 at undergraduate)

## **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 at undergraduate)

## SELECTED AWARDS & ACHIEVEMENTS

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**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

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

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