Weiqing Luo

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EDUCATION

Nanjing University   Sep 2022 − Jun 2025
MA.Sc. in Computer Science   **GPA: 91.7/100**
Advised by Prof. Gong Cheng

Nanjing University   Sep 2018 − Jun 2022
B.Sc. in Computer Science   **GPA: 88.6/100**
Enrolled in Elite Class

RESEARCH INTERESTS

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

EXPERIENCE

Tencent   Shenzhen, China
Researcher   *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   Shenzhen, China
Researcher   *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   Shanghai, China
Backend Engineer   *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.
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, Tengteng 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.
Weiqing 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, Weiqing Luo, Tengteng Lin, Qing Shi, Gong Cheng. [paper]

CKGSE: A Prototype Search Engine for Chinese Knowledge Graphs.
*Data Intelligence (**DI 2022**).*
Xiaxia Wang, Tengteng Lin, Weiqing Luo, Gong Cheng, Yuzhong Qu. [paper]

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, Tengteng Lin, Weiqing Luo, Gong Cheng, Yuzhong Qu. [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