

Shuoqi Sun

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EDUCATION

RMIT University <i>Doctor of Philosophy (Computer Science)</i>	Melbourne, AU 2025.03 - 2029.03 (Expected)
The University of Queensland <i>Master of Computer Science</i> <i>GPA: 6.875/7; High Distinction</i> <i>Postgraduate Thesis: HD; Information Retrieval: HD; Data Mining: HD; Social Media Analysis: HD</i>	Brisbane, AU 2023.07 - 2024.07
Inner Mongolia University <i>Bachelor of Engineering - Computer Science and Technology</i> <i>Average Score: 77; Distinction</i>	Hohhot, CN 2018.09 - 2022.06

PUBLICATIONS

Shuoqi Sun, Shengyao Zhuang, Shuai Wang, and Guido Zuccon. 2025. *An investigation of prompt variations for zero-shot llm-based rankers*. The 47th European Conference on Information Retrieval (**ECIR 2025 Full Paper**).

RESEARCH EXPERIENCE

Casual Research Assistant <i>Assessing Resource Consumption and Environmental Impact of LLM-based Re-Rankers</i>	University of Queensland 2024.06 - 2024.08
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- Focusing on research in Green Information Retrieval (Green-IR) alongside professional teams to evaluate resource consumption and promote environmental sustainability in computational methods.
- Adapting previous Green-IR experiments by integrating the latest advancements in LLM-based re-rankers, particularly refining the code, experimental settings, and pipelines.
- Preparing manuscripts for submission to prestigious conferences and journals.

Academic Advisor: Prof. Guido Zuccon

Computer Science Research Project (Postgraduate Thesis Project) <i>What Makes a Real Difference? An Investigation of Prompts across Zero-shot LLM-based Rankers</i>	University of Queensland 2023.07-2024.06
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- Comprehensive individual project including a proposal, one-semester progress seminar, conference paper, poster demonstration, and final thesis. This project contributes 37.5% to my Master's total units.
- Conducted extensive literature review on LLM applications in Information Retrieval research. Analyzed how prompt variations and other factors in zero-shot LLM-based rankers affect ranking performance.
- Selected as an Illustration Example of good writing and design for the EECS Thesis Course.

Academic advisor: Prof. Guido Zuccon

2024 UQ EAIT Faculty Summer Internship <i>Focusing on LLMs and Prompt Engineering in Information Retrieval</i>	University of Queensland 2023.11-2024.02
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- A paid full-time internship in a professional team (IeLab) focused on Information Retrieval research. Developed strong skills in methodology and experimental design, analysis and research ability.
- Learned effective teamwork and collaboration. Foresee further work collaborations with team members.
- Gained experience in prompt engineering and LLM techniques. With guidance from the supervisor and team members, developed a comprehensive research methodology and conducted extensive experiments.
- Completed a huge number of results files (over 20000 files), contributing significantly to my publication.

Academic advisor: Prof. Guido Zuccon

Undergraduate Thesis Project Inner Mongolia University

Implementation of Traceability Data On-Chain Function Based on Wenchang Chain 2021.07 - 2022.06

- Developed a traceability system for supply chain management using the Wenchang Chain within the BSN network. Enhanced transparency and efficiency by integrating blockchain technology.
- Implemented key features such as data extraction, on-chain integration, and traceability retrieval. Acquired deep knowledge of blockchain theory, applications, and the benefits of consortium chains.
- Collaborated with a senior PhD student, demonstrating efficient teamwork skills.

Academic advisor: Prof. Ru Li

2020 Innovation and Entrepreneurship Program Inner Mongolia University

Design and Implementation of LED Strip Navigation System for Underground Parking Lot 2020.04 - 2022.03

- Designed an application with a user-friendly interface for underground parking lot navigation. Integrated the application with FPGA and LED strips to provide clear route instructions.
- Implemented backend functionality to recognize surveillance images. Utilized database techniques to manage data, and developed algorithms to analyze images and calculate the optimal parking route for users.
- Bronze Award in The 6th “Internet+” College Student Innovation and Entrepreneurship Competition.

Academic advisor: A. Prof. Fengqi Wei

GRANTS & SCHOLARSHIPS

- RMIT University (ADM+S) PhD Scholarship** includes coverage for tuition fees, life stipends, overseas insurance, and other benefits 2025.03-2029.03
- ECIR 2025 Student Support Grant** (330 EUR for Registration Fee) 2025.01
- 2024 UQ EAIT Faculty Summer Intern Scholarship** (6000 AUD) 2023.11-2024.02

AWARDS & HONORS

- Dean’s Commendation for Academic Excellence** (Twice) 2023.11, 2024.06
- Bronze Award** (500 CNY), *The 6th “Internet+” College Student Innovation and Entrepreneurship Competition* (20 Gold Awards, 21 Silver Awards, 31 Bronze Awards. 747 Participant Projects in Total.) 2020.10

PRESENTATIONS

Poster Demonstration and Presentation, Postgraduate Thesis Project, University of Queensland, “An Investigation of Prompts across Zero-shot LLM-based Rankers.” June, 2024.

Weekly PhD Meeting of IeLab, University of Queensland, “Unlocking the Power of Large Language Models in Search with Instruction Tuning.” June, 2024.

Weekly PhD Meeting of IeLab, University of Queensland, “Large Language Models as Optimizers.” October, 2023.

THESIS

Master’s Thesis (37.5% of total coursework) The University of Queensland
What Makes a Real Difference? An Investigation of Prompts across Zero-shot LLM-based Rankers
Thesis Length: 15,456 words (English), 48 pages.
This thesis is selected as an Illustration Example of good writing and design.

Bachelor’s Thesis Inner Mongolia University
Implementation of Traceability Data On-Chain Function Based on Wenchang Chain (A Blockchain in China)
Thesis Length: 12,421 words (Chinese), 24 pages.

LANGUAGE QUALIFICATIONS

Simplified Chinese: *Native Speaker*

English: *IELTS: 6.5 in Total (7.5 in Reading Section) Granted at 2023.02.28*

INDUSTRY EXPERIENCE

BOE Technology Group Co., Ltd. (BOE) Beijing, CN
Projects Management (Digital System Projects) 2022.07 - 2023.07

- Participated in key projects: *Leads to Cash (LTC)* and *Business Scenario Analysis (Visualization Panel)*:
 - Gathered user requirements and feedback, serving as the liaison between the Front-End (Sales Team) and Back-End (IT Team). Facilitated clear communication of needs and ensured accurate interpretation of requirements for seamless application development.
 - Managed project timelines and ensured successful completion of key milestones. Prepared promotional materials for activities and events.
 - Monitored project issues, ensuring timely resolution by the IT team or other departments. Conducted black box testing, provided feedback to the IT team.

MEMBERSHIPS

Chairman of “Center for Converged Media” of the Inner Mongolia University Youth Committee. 2020.06 - 2021.09

Chairman of the “Student Union” in the College of Computer Science 2020.06 - 2021.09

ACTIVITIES

The 2023 EKKA Parade Volunteer Program Brisbane, AU
Fashion Parade Assistant, Flower Garden Precinct Assistant, Milking Barn Activation Assistant 2023.08

Culture, Science, and Health “Going to the Countryside” Activity Inner Mongolia, CN
Agricultural Technology Support Group 2019.02