

Weiwei Sun

✉ sunnweiwei@gmail.com

🐦 @sunweiwei12

🌐 sunweiwei

🌐 <https://sunnweiwei.github.io/>

🎓 google scholar



Research Interests: Natural Language Processing, Information Retrieval

Education

- 2021 – 2023 📖 **M.Sc., Shandong University** Computer Science.
Supervisor: *Prof. Zhaochun Ren*
- 2017 – 2021 📖 **B.Sc. (with honor), Shandong University** Computer Science.
GPA: 3.8 / 4.0 · Supervisor: *Prof. Zhaochun Ren*






Work Experience

- 2022 – 2023 📖 **Research Intern.** Search Science Team, Baidu Inc.
- 2021 – 2022 📖 **Research Intern.** Data Science Lab, JD.com.
- 2019 – 2021 📖 **Research Assistant.** Information Retrieval Lab, Shandong University.




Publications

- 1 **Weiwei Sun**, L. Yan, X. Ma, P. Ren, D. Yin, and Z. Ren, “Is chatgpt good at search? investigating large language models as re-ranking agents,” in *EMNLP*, 2023.
- 2 **Weiwei Sun**, L. Yan, Z. Chen, S. Wang, H. Zhu, P. Ren, Z. Chen, D. Yin, M. de Rijke, and Z. Ren, “Learning to tokenize for generative retrieval,” in *NeurIPS*, 2023.
- 3 **Weiwei Sun**, H. Cai, H. Chen, P. Ren, Z. Chen, M. de Rijke, and Z. Ren, “Answering ambiguous questions via iterative prompting,” in *ACL*, 2023, pp. 7669–7683.
- 4 Z. Shi, **Weiwei Sun**, S. Zhang, Z. Zhang, P. Ren, and Z. Ren, “Rade: Reference-assisted dialogue evaluation for open-domain dialogue,” in *ACL*, 2023, pp. 12 856–12 875.
- 5 S. Guo, S. Zhang, **Weiwei Sun**, P. Ren, Z. Chen, and Z. Ren, “Towards explainable conversational recommender systems,” in *SIGIR*, 2023, pp. 2786–2795.
- 6 **Weiwei Sun**, P. Ren, and Z. Ren, “Generative knowledge selection for knowledge-grounded dialogues,” in *Findings of EACL*, 2023, pp. 2077–2088.
- 7 **Weiwei Sun**, Z. Shi, S. Gao, P. Ren, M. de Rijke, and Z. Ren, “Contrastive learning reduces hallucination in conversations,” in *AAAI*, 2023, pp. 13 618–13 626.
- 8 **Weiwei Sun**, S. Guo, S. Zhang, P. Ren, Z. Chen, M. de Rijke, and Z. Ren, “Metaphorical user simulators for evaluating task-oriented dialogue systems,” *ACM Transactions on Information Systems*, vol. 42, 2023.
- 9 **Weiwei Sun**, S. Zhang, K. Balog, Z. Ren, P. Ren, Z. Chen, and M. de Rijke, “Simulating user satisfaction for the evaluation of task-oriented dialogue systems,” in *SIGIR*, 2021, pp. 2499–2506.
- 10 **Weiwei Sun**, C. Meng, Q. Meng, Z. Ren, P. Ren, Z. Chen, and M. de Rijke, “Conversations powered by cross-lingual knowledge,” in *SIGIR*, 2021, pp. 1442–1451.
- 11 C. Meng, P. Ren, Z. Chen, **Weiwei Sun**, Z. Ren, Z. Tu, and M. de Rijke, “Duketnet: A dual knowledge interaction network for knowledge-grounded conversation,” in *SIGIR*, 2020, pp. 1151–1160.





Resources Shared

- 2023  **NovelEval** IR test set with the novel queries and passages.
<https://github.com/sunnweiwei/RankGPT/tree/main/NovelEval>
-  **DiQAD** Long-form question answering dataset with detailed quality annotations.
share on google drive
- 2022  **E-Redial** Conversational recommender dataset with high-quality explanations.
<https://github.com/Superbooming/E-Redial>
- 2021  **USS** Task-oriented dialogue dataset with multi-grain user satisfaction annotations.
<https://github.com/sunnweiwei/user-satisfaction-simulation>
-  **CKGC** Open-domain dialogue dataset with annotated cross-lingual knowledge.
<https://github.com/sunnweiwei/ckgc>

Selected Projects








- 2023  **RankGPT** LLMs as re-ranking agents
<https://github.com/sunnweiwei/RankGPT>
-  **Fuzi · Mingcha** LLMs for legal applications
<https://huggingface.co/fireballoon> <https://huggingface.co/SDUIRLab>
- 2019  **Voice of AI** Scene-based music generation
<https://voiceofai.github.io/>
Generating music based on video scene, a program mentored by Kuaishou. Outstanding presentation in DeeCamp 2019.

Skills



- Coding  Python (CSP 400), Java, C++, SQL, ~~LaTeX~~, ...
- Database  MySQL, Redis, Elasticsearch, MapReduce.
- Research  PyTorch, TensorFlow, HuggingFace, Deepspeed, OpenAI
- Web Dev  HTML, CSS, JavaScript.

Miscellaneous Experience

Awards and Achievements

- 2022  **Second Price**, Academic Show , CCF.
- 2021  **Outstanding Graduate & B.Sc. with honors**, Shandong University.
- 2019  **National Second Price**, Mathematical Contest in Modeling (CUMCM).
-  **Ranked 2 out of 11395 participants**, Certified Software Professional, CCF.
-  **First Prize**, College Software Innovation & Hackathon Contest, Shandong University.
- 2018  **Outstanding Presenter**, Short-Term Visiting Program, Oxford University.
- 2017 – 2021  **College Academic Scholarship**, Shandong University.

Academic Service

- Reviewer  EMNLP 2022, ACL 2023, SIGIR 2023, SIGIR-AP 2023, ECML/PKDD 2023, IPM 2023, WSDM 2023, EMNLP 2023.
- Volunteer  YSSNLP 2022, NLPCC 2022, AAAI 2023.

Teaching Experience

- 2022  **Big Data Technology**, Shandong University · *Teaching Assistant*.

Miscellaneous Experience (continued)

- 2021

 **Computer Organization and Design**, Shandong University · *Teaching Assistant*.
- 2021

 **Mathematical Modeling (Summer Course)**, Shandong University · *Lecturer*.
- 2021 – 2023

 I help supervised the following research assistants in the IR Lab at Shandong University:
Shuyu Guo, Zhengliang Shi, Liu Yang, Zheng Chen.