

Xi Xia Wang (王夏霞)

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About Me

Currently, I am a Ph.D. student in the [Department of Computer Science](#) of [University of Oxford](#). I am a member of the [Data and Knowledge Group](#), advised by Prof. [Ian Horrocks](#). Before that, I achieved my M.S. degree of Computer Technology from [Nanjing University](#) in 2022. I worked in [Websoft Research Group](#), supervised by Prof. [Gong Cheng](#) and Prof. [Yuzhong Qu](#). I obtained my B.S. degree of Information and Computing Science from [Nanjing University of Aeronautics and Astronautics](#) in 2019.

Education

University of Oxford

Oct. 2022 – Now

Ph.D. student of Computer Science

Supervisor: Prof. Ian Horrocks

Nanjing University

Sept. 2019 – June 2022

M.S. degree of Computer Technology

Supervisors: Prof. Gong Cheng and Prof. Yuzhong Qu

Nanjing University of Aeronautics and Astronautics

Sept. 2015 – June 2019

B.S. degree of Information and Computing Science

GPA: 4.5/5.0, Ranking: 1/70

Research Interest

My research interests include **knowledge graph**, **neuro-symbolic reasoning**, and **semantic technologies** applied in intelligent systems.

Currently I am interested in combining symbolic rules with neural methods to achieve explainable, effective systems. I have also worked on semantic search algorithms applied in dataset search systems, including data summarization, query analysis, and information retrieval.

Publications (Reverse Chronological)

1. **Xi Xia Wang**, David J. Tena Cucala, Bernardo Cuenca Grau, Ian Horrocks
[Faithful Rule Extraction for Differentiable Rule Learning Models](#).
In Proc. of the 12th International Conference on Learning Representations (ICLR 2024).
2. **Xi Xia Wang**, Gong Cheng, Jeff Z. Pan, Evgeny Kharlamov, Yuzhong Qu
[BANDAR: Benchmarking Snippet Generation Algorithms for \(RDF\) Dataset Search](#).
In IEEE Transactions on Knowledge and Data Engineering 35(2) (TKDE 2023).
3. Tengting Lin, Qiaosheng Chen, Gong Cheng, Ahmet Soylu, Basil Ell, Ruoqi Zhao, Qing Shi, **Xi Xia Wang**, Yu Gu, Evgeny Kharlamov
[ACORDAR: A Test Collection for Ad Hoc Content-Based \(RDF\) Dataset Retrieval](#).
In Proc. of the 45th International ACM SIGIR Conference (SIGIR 2022).
4. **Xi Xia Wang**, Tengting Lin, Weiqing Luo, Gong Cheng, Yuzhong Qu
[CKGSE: A Prototype Search Engine for Chinese Knowledge Graphs](#).
In Data Intelligence 4(1) (DI 2022).
5. **Xi Xia Wang**, Gong Cheng, Tengting Lin, Jing Xu, Jeff Z. Pan, Evgeny Kharlamov, Yuzhong Qu
[PCSG: Pattern-Coverage Snippet Generation for RDF Datasets](#).
In Proc. of the 20th International Semantic Web Conference (ISWC 2021). With Student Grant.

6. **Xiaxia Wang**, Tengting Lin, Weiqing Luo, Gong Cheng, Yuzhong Qu
[Content-Based Open Knowledge Graph Search: A Preliminary Study with OpenKG.CN](#).
 In Proc. of the 2021 China Conference on Knowledge Graph and Semantic Computing (CCKS 2021).
7. **Xiaxia Wang**, Jinchi Chen, Shuxin Li, Gong Cheng, Jeff Z. Pan, Evgeny Kharlamov, Yuzhong Qu
[A Framework for Evaluating Snippet Generation for Dataset Search](#).
 In Proc. of the 18th International Semantic Web Conference (ISWC 2019).
8. **Xiaxia Wang**, Gong Cheng, Evgeny Kharlamov
[Towards Multi-Facet Snippets for Dataset Search](#).
 In Proc. of the 6th International Workshop on Dataset PROFILING and Search (PROFILES 2019).
9. Jinchi Chen, **Xiaxia Wang**, Gong Cheng, Evgeny Kharlamov, Yuzhong Qu
[Towards More Usable Dataset Search: From Query Characterization to Snippet Generation](#).
 In Proc. of the 28th ACM International Conference on Information and Knowledge Management (CIKM 2019).
[\[DBLP Page\]](#) [\[Google Scholar\]](#) [\[Semantic Scholar\]](#)

Awards and Honors

- Outstanding Master Thesis of Jiangsu Computer Society 2023
- Outstanding Master Thesis of Nanjing University 2023
- Bosch Scholarship on ‘Collaborative AI in Production’ (fully funded for Ph.D. program) 2022
- National Scholarship 2021
- First-Class Academic Scholarship of Nanjing University 2020 – 2022
- Outstanding Graduate Student of Nanjing University 2019, 2021
- Jiangsu Financial Leasing Scholarship 2019
- Huawei Scholarship 2018
- First-Class Outstanding Student Scholarship 2016 – 2019

Teaching Assistant

- Database Systems Implementation *Hilary Term 2023*
 - Marking problem sheets and giving weekly classes.
- Graph Theory and Algorithms *Spring 2022*
- Graph Theory *Spring 2021, Spring 2020*
 - For about 70 undergraduate and graduate students.

Academic Services

Program Committee Member

- CIKM 2020 – 2023
- ISWC 2022 – 2023

Review Committee Member

- Journal of Web Semantics

Others

- Oxford Women in Computer Science Society (OxWoCS): Committee Member 2023
- IJCAI: Assistant Workflow Chair 2023

Language Skills

- Chinese (Mandarin): Native
- English: Bilingual

Updated at: *Feb. 2024*