

Xi Xia Wang (王夏霞)

Oriel College, Oriel Square, Oxford, OX1 4EW, United Kingdom

E-mail: xi Xia.wang@oriel.ox.ac.uk, Homepage: <https://xi Xia-wang.github.io/>

Short Bio

Currently I am a Ph.D. student of [Department of Computer Science](#) in [University of Oxford](#). I work in the [Data and Knowledge Group](#), supervised 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 received 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 in Department of Computer Science

Supervisor: Prof. Ian Horrocks

Nanjing University

Sept. 2019 - Jun. 2022

M.S. degree of Computer Technology

Supervisors: Prof. Gong Cheng and Prof. Yuzhong Qu

Nanjing University of Aeronautics and Astronautics

Sept. 2015 - Jun. 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

1. **Xi Xia Wang**, Gong Cheng, Jeff Z. Pan, Evgeny Kharlamov, Yuzhong Qu
[BANDAR: Benchmarking Snippet Generation Algorithms for \(RDF\) Dataset Search](#).
Accepted by IEEE Transactions on Knowledge and Data Engineering (TKDE).
2. 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).
3. **Xi Xia Wang**, Tengting Lin, Weiqing Luo, Gong Cheng, Yuzhong Qu
[CKGSE: A Prototype Search Engine for Chinese Knowledge Graphs](#).
In Data Intelligence (DI 2022).
4. **Xi Xia 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).

5. **Xiaxia 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**, 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).
7. **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).
8. 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).
[\[DBLP Page\]](#) [\[Google Scholar\]](#)

Selected Awards and Honors

- 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

- **Graph Theory and Algorithms** *Spring 2022*
- **Graph Theory** *Spring 2020, Spring 2021*
 - For about 70 graduate and undergraduate students.

PC Member

- ISWC: *2022*
- CIKM: *2020 - 2022*

Review Committee Member

- Journal of Web Semantics

Language Skills

- **Chinese**: Native
- **English**: Advanced
 - TOEFL-iBT: 107/120 (*Jun. 2021*), GRE: 324/340 (*Feb. 2021*)

Updated at: *Nov. 2022*