

# Xi Xia Wang (王夏霞)

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## Short Bio

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Currently I am a Ph.D. student of [Department of Computer Science](#) in [University of Oxford](#). I work in 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 received my B.S. degree of Information and Computing Science from [Nanjing University of Aeronautics and Astronautics](#) in 2019.

## Education

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### 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

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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

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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

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- 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

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

## PC Member

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

## Review Committee Member

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- Journal of Web Semantics

## Language Skills

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

Updated at: *Nov. 2022*