

# Xi Xia Wang (王夏霞)

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## About Me

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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

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### 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

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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 (Reverse Chronological)

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1. **Xi Xia Wang**, David Jaime 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).  
[\[DBLP Page\]](#)      [\[Google Scholar\]](#)

## Awards and Honors

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

## Teaching Assistant

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|---|---------------------------------|
| • Database Systems Implementation<br>– Marking problem sheets and giving classes. | <i>Hilary Term 2023</i>         |
| • Graph Theory and Algorithms   | <i>Spring 2022</i>              |
| • Graph Theory<br>– For about 70 undergraduate and graduate students.             | <i>Spring 2021, Spring 2020</i> |

## Academic Services

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### Program Committee Member

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|--------|--------------------|
| • CIKM | <i>2020 – 2023</i> |
| • ISWC | <i>2022 – 2023</i> |

### Review Committee Member

- Journal of Web Semantics

### Others

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|---|-------------|
| • Oxford Women in Computer Science Society (OxWoCS): Committee Member | <i>2023</i> |
| • IJCAI: Assistant Workflow Chair                                     | <i>2023</i> |

## Language Skills

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

Updated at: *Jan. 2024*