

# 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. [Bernardo Cuenca Grau](#), Prof. [Ian Horrocks](#), and Dr. [David Tena Cucala](#). 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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<b>University of Oxford</b> Ph.D. student of Computer Science Advisors: Prof. Bernardo Cuenca Grau, Prof. Ian Horrocks, Dr. David Tena Cucala	<i>Oct. 2022 – Now</i>
<b>Nanjing University</b> M.S. degree of Computer Technology Supervisors: Prof. Gong Cheng and Prof. Yuzhong Qu	<i>Sept. 2019 – June 2022</i>
<b>Nanjing University of Aeronautics and Astronautics</b> B.S. degree of Information and Computing Science GPA: 4.5/5.0, Ranking: 1/70	<i>Sept. 2015 – June 2019</i>

## Research Interests

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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 network models to achieve both **explainable** and **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 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 Soyly, 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. **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).
  7. **Xi Xia 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. **Xi Xia 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, **Xi Xia 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

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- 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

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

## Academic Services

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### Program Committee Member

- CIKM 2020 – 2024
- 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

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- Chinese (Mandarin): Native
- English: Bilingual

Updated at: *Mar. 2024*