Xiaxia Wang (王夏霞)

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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, 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

University of Oxford *Oct. 2022 – Now*
Ph.D. student in Department 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

1. **Xiaxia 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).
2. Tengteng Lin, Qiaosheng Chen, Gong Cheng, Ahmet Soylu, Basil Ell, Ruoqi Zhao, Qing Shi, **Xiaxia 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. **Xiaxia Wang**, Tengteng Lin, Weiqing Luo, Gong Cheng, Yuzhong Qu
   CKGSE: A Prototype Search Engine for Chinese Knowledge Graphs.
   In Data Intelligence 4(1) (DI 2022).
4. **Xiaxia Wang**, Gong Cheng, Tengteng 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.

5. **Xiaxia Wang**, Tengteng 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).
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]

Awards and Honors

- Bosch Studentship at Oxford (fully funding 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

- 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

- IJCAI: Assistant Workflow Chair *2023*

Language Skills

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

Updated at: *Sept. 2023*