XINYUE ZHANG

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EDUCATION

Southeast University **Nanjing, China**
B.S. in Electronic Science and Engineering Sept. 2017 to July 2021 (expected)

- GPA: 85/100.
- Joined the Knowledge Graph Research Group in Sept. 2019, supervised by Prof. Meng Wang.
- Relevant Courses: Linear Algebra (I got **100/100** and the **scholarship** for this course), Advanced Mathematics (90/100), Programming and Algorithm Language (C/C++) (95/100), Computer Structure and Logic Design, Probability Statistics and Stochastic Process, Computer Network, Microcomputer System and Interface, Academic Writing etc.

Imperial College London **London, Britain**
Data Science Summer School (held by Prof. Yike Guo) July 2019 to Aug. 2019

- Experienced study abroad and finally made up my mind to do research.
- Relevant Courses: Introduction to Artificial Intelligence, Data Science, English for Academic Purposes etc.

PUBLICATIONS

- **Xinyue Zhang**, Meng Wang, Muhammad Saleem, Axel-Cyrille Ngonga Ngomo, Guilin Qi, and Haofen Wang. Revealing Secrets in SPARQL Session Level. *International Semantic Web Conference (ISWC 2020)*. [PDF]
- **Xinyue Zhang**, Meng Wang, Bingchen Zhao, Ruyang Liu, Jingyuan Zhang, Han Yang. Characterizing Robotic and Organic Query in SPARQL Search Sessions. *APWeb-WAIM 2020*. [PDF]

RESEARCH EXPERIENCE

Studying user search behaviors in SPARQL session level **Nanjing, China**
Supervised by Prof. Meng Wang Jan. 2020 to May 2020

- Designed an algorithm to identify robotic queries to eliminate their interference in the data analysis of user behaviors. This algorithm has been published in ***APWeb-WAIM 2020***.
- Defined the concept of SPARQL search session and how to identify it.
- Investigated potential correlations between SPARQL queries in the same session and provided detailed analysis of query reformulations in single search sessions.
- Had 4 key findings about preference behaviors of human users during their information-hunting process using SPARQL.
- Provided an application example of the usage of findings, to illustrate the potentiality of utilizing user behaviors in search sessions in designing technologies that help users to search via SPARQL.
- This work has been published in ***ISWC 2020***.

Sci-Magi Search Engine **Nanjing, China**
Supervised by Prof. Meng Wang Nov. 2019 to - (ongoing)

- The goal is to build an academic search engine that has the power of *Magi*.
- Our team is responsible for building an ontology for all the academic fields, like computer science ontology (CSO). My job is to collect and pre-process academic data, as well as mining basic relations between academic fields.

PROJECTS

Real-time Style Transfer Glasses **Nanjing, China**
Supervised by Prof. Jun Wu (Chinese website) in this lab Oct. 2018 to Aug. 2020

- It's a **Student Research Training Program (SRTP)** Project at **National Level**, in which I served as **team leader**.
- Employed a device that can transfer style of scenes in front of you in real time and display results on glasses.
- Obtained a Chinese **Utility Model Patent** of *head-mounted style transfer device* (2019211895013).

CONFERENCE PRESENTATIONS

APWeb-WAIM 2020 **Virtual**
Presented our paper in Research Session: Data Mining. Sept. 2020

- Joined the session and presented our paper: Characterizing Robotic and Organic Query in SPARQL Search Sessions, by recording videos in advance and doing Q&A online. [PPT]

RESEARCH INTERESTS

My research interest include but not limited to: Knowledge Graphs, Semantic Search, Information retrieval, User search behaviors, and Graph data analysis.