

YIHENG SHU (舒意恒)

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EDUCATION & EXPERIENCE

Master of Computer Technology, Nanjing University *Sep. 2020 - Jun. 2023*
Advised by Prof. Yuzhong Qu, Websoft research group GPA: 90.96 / 100

Bachelor of Software Engineering, Northeastern University, China *Sep. 2016 - Jun. 2020*
Advised by Prof. Guibing Guo and Prof. Gang Wu. GPA: 4.1073 / 5.0, top 1.7%

Research Intern, Microsoft Research Asia *Feb. 2022 - Feb. 2023*
Advised by Researcher Zhiwei Yu, Knowledge Computing group

RESEARCH INTERESTS

My research interests include question answering (QA) and knowledge graph (KG). Currently, I mainly focus on knowledge base question answering (**KBQA**) with semantic parsing-based methods, which converts natural language questions into structured formal queries such as SPARQL. I attempt to address challenges such as generalization and data scarcity. I have also conducted some research about recommender systems. Please see my [research statement](#).

PUBLICATIONS

6. Question Decomposition Tree for Answering Complex Questions over Knowledge Bases
[AAAI'23] Xiang Huang, Sitao Cheng, **Yiheng Shu**, Yuheng Bao, Yuzhong Qu
5. [TIARA: Multi-grained Retrieval for Robust Question Answering over Large Knowledge Base](#)
[EMNLP'22] **Yiheng Shu**, Zhiwei Yu, Yuhan Li, Börje F. Karlsson, Tingting Ma, Yuzhong Qu, Chin-Yew Lin
4. [Logical Form Generation via Multi-task Learning for Complex Question Answering over Knowledge Bases](#)
[COLING'22] Xixin Hu, Xuan Wu, **Yiheng Shu**, Yuzhong Qu
3. [EDG-based Question Decomposition for Complex Question Answering over Knowledge Bases](#)
[ISWC'21] Xixin Hu, **Yiheng Shu**, Xiang Huang, Yuzhong Qu
2. [Deep Learning for Sequential Recommendation: Algorithms, Influential Factors, and Evaluations](#)
[TOIS'20] Hui Fang, Danning Zhang, **Yiheng Shu**, Guibing Guo
1. [Deep Learning-based Sequential Recommender Systems: Concepts, Algorithms, and Evaluations](#)
[ICWE'19 tutorial] Hui Fang, Danning Zhang, Guibing Guo, **Yiheng Shu**

SELECTED HONORS & AWARDS

Yingcai Scholarship, Nanjing University	<i>2022</i>
First-class Academic Scholarship for Master Students, Nanjing University	<i>2020 - 2022</i>
Provincial Excellent Graduates (top 3%), Education Department of Liaoning Province	<i>2020</i>
Meritorious Winner in MCM/ICM (international top 7%), COMAP	<i>2019</i>
Suzhou Industrial Park Scholarship(top 5%), Northeastern University (China)	<i>2019</i>
Pacemaker to Outstanding Student (top 1%), Northeastern University (China)	<i>2018</i>
National Scholarship (top 3%), Ministry of Education of the PRC	<i>2018</i>

TEACHING ASSISTANCE

Linux Operating System Analysis, Northeastern University, China *2017 Spring*