

YIHENG SHU (舒意恒)

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EDUCATION & EXPERIENCE

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

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

Full-time Research Intern, Microsoft Research Asia *Beijing, China, 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 2022

First-class Academic Scholarship for Master Students, Nanjing University 2020 - 2022

Provincial Excellent Graduates (top 3%), Education Department of Liaoning Province 2020

Meritorious Winner in MCM/ICM (international top 7%), COMAP 2019

Suzhou Industrial Park Scholarship(top 5%), Northeastern University (China) 2019

Pacemaker to Outstanding Student (top 1%), Northeastern University (China) 2018

National Scholarship (top 3%), Ministry of Education of the P.R. China 2018

TEACHING ASSISTANCE

Linux Operating System Analysis, Northeastern University, China 2017 Spring

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