

# YIHENG SHU (舒意恒)

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## EDUCATION & EXPERIENCE

<b>Master in Computer Technology</b> , Nanjing University Advised by Prof. Yuzhong Qu, Websoft research group	<i>Nanjing, China, Sep. 2020 - Jun. 2023</i> GPA: 90.96 / 100
<b>Bachelor in Software Engineering</b> , Northeastern University Advised by Prof. Guibing Guo and Prof. Gang Wu.	<i>Shenyang, China, Sep. 2016 - Jun. 2020</i> GPA: 4.1073 / 5.0, top 1.7%
<b>Full-time Research Intern</b> , Microsoft Research Asia Advised by Researcher Zhiwei Yu, Knowledge Computing group	<i>Beijing, China, Feb. 2022 - Feb. 2023</i>

## 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.

## 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

First-class 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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*Last modified: Mar., 2023*