

# Jiaxing Xu

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## EDUCATION

### Beihang University

Sep 2016 - Jun 2020

Undergraduate Software Engineering

Beijing

- Honors/Awards: Yuanhang Undergraduate Summer Overseas Research Scholarship, Software College 2018 Innovation and Entrepreneurship Scholarship, Software College Excellent Student Leader Award

## PUBLICATION

- Jiaxing Xu, Zhaoyu Wang, Peiran Yao, Yutao Zhang and Jie Tang. ColdChat: Cold-Starting Task-Oriented Dialogue System with Template-Guided Pre-Training. In Proceedings of the Conference on Association for the Advancement of Artificial Intelligence (AAAI'20)(submitted) .

## PROFESSIONAL EXPERIENCE

### Knowledge Engineering Group, Tsinghua University

Jun 2018 - Present

Research Assistant , advised by Jie Tang

Beijing

- Took part in AMiner dialog system NER and chatbot related work.
- Use BiLSTM-CRF-NER model and LSTM classifier to construct chatbot. An interactive visualized syntax tree help people to define question rules.

### Compute Intelligence Lab, Nanyang Technological University

Jul 2019 - Sep 2019

Research Assistant , Advised by Yiping Ke

Singapore

- Responsible for GNN+dialog system related work.
- We consider to construct a graph by using the knowledge and use GNN to learn the construction feature from the graph. Then combine the GNN output with the origin encoder to improve the dialog agent.

### Big Data Mining Team, Microsoft Research Asia

Mar 2019 - Jun 2019

Research Assistant , advised by Börje Karlsson

Beijing

- Participate in the development of intelligent assistant EDI.

### School of Software, Beihang University

Aug 2018 - Sep 2018

Teaching Assistant of The Practice of Programming

Beijing

- Responsible for the basic direct of ML and Python.
- The course is a primary school course designed to familiarize students with the engineering process and develop a complete project independently.

### Jiuyi (Beijing) Information Technology Co., Ltd.

Jun 2017 - Sep 2018

R&D Engineer , Research and Development Department

Beijing

- Leading the research and development of the "Intelligent Interrogation" internship project, mainly responsible for the training of Word2vec and LDA models.
- The project classifies the symptoms in the disease library by machine learning methods, and then recommends the corresponding medication according to the symptoms of different patients.

## LEADERSHIP EXPERIENCE

### XiaoTan Academic Dialogue System

Jan 2019 - Jun 2019

First Author

Beijing

- A dialogue system based on the Aminer data using the pipeline method to improve the performance of the model on small-scale data and implementation cold-start
- Responsible for model design and data processing

## **QA System Development**

*May 2018 - Jul 2018*

*First Author*

*Beijing*

- Generate answers to different questions using the Seq2seq model.
- Responsible for data processing and model training.

## **Automatic Generation of Smart Contracts Based on Blockchain and Natural Language Processing**

*Feb 2018 - May 2018*

*First Author*

*Beijing*

- 3rd Prize of the 28th Feng Ru Cup Science and Technology Competition
- Responsible for keyword extraction and semantic analysis

## **Intelligent Interrogation System Based on Natural Language Processing**

*Jul 2017 - May 2018*

*First Author*

*Beijing*

- 3rd Prize of the 28th Feng Ru Cup Science and Technology Competition
- Participated in the Beijing University of Aeronautics and Astronautics Innovation and Entrepreneurship Program and received 7500 yuan of research funding
- Responsible for data acquisition and model training

## **Food QA System**

*Jun 2017 - Aug 2017*

*Second Author*

*Beijing*

- 2017 Baidu Star Developers Competition, seventh place
- Building a task-oriented gourmet question answering system using traditional pipeline methods
- Responsible for designing intents and vocabulary in UNIT

## **Community and Organizational Experience**

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### **Student Union of Software School**

*Jul 2017 - Jul 2019*

*Minister*

*Beijing*

- The contact agency cooperates with the company to provide financial support for various activities of the college and to cooperate with other school colleges.
- Participated in the 2017 Amethyst Ten School Ballroom
- Participated in the Microsoft Asia Academy Internship Sharing Session

### **HP DreamWorks**

*Jun 2017 - Jul 2019*

*Campus Captain*

*Beijing*

- Hosted the "HP Campus" Campus Engineer Training Program
- Participated in HP product research twice
- Two "HP Service Day" events