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

Nanyang Technological University   *Jul 2019 - Sep 2019*

Visiting Student Computer Science and Engineering   *Singapore*

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 58th Annual Meeting of the Association of Computational Linguistics (EMNLP'20)(submitted).

- Jiangneng Li*, **Jiaxing Xu***, Cheng Long. TAS-LSTM: Predicting Sports Trajectory under Team Aware Situations. In Proceedings of the 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining (CIKM'20)(submitted).

- Yanqiu Song, Hang Su, Defang Yuan, **Jiaxing Xu**, Ting Gao. Venture Capital and Acquisition Performance in the Newly Public Chinese Firms. In Proceedings of the 20th European Academy of Management conference(EURAM'20).

PROFESSIONAL EXPERIENCE

Knowledge Computing Group, Microsoft Research Asia   *Dec 2019 - Present*

Research Assistant , advised by Börje Karlsson   *Beijing*

- Enhanced Meta-Learning and Active Learning for Cross-lingual Named Entity Recognition with Minimal Resources
  For languages with no annotated resources, transferring knowledge from rich-resource languages is an effective solution for named entity recognition (NER). While all existing methods directly transfer from source-learned model to a target language, in this paper, we propose to fine-tune the learned model with a few similar examples given a test case, which could benefit the prediction by leveraging the structural and semantic information conveyed in such similar examples. We also present an active learning algorithm to quickly find informative samples from unlabeled data that could fast improve the performance of our model.

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.
- Participate in the work of TAS-LSTM and improve the trajectory prediction effect with the information of graph format.

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 Enterprise Deep Intelligence(EDI).
- Completed dialog management of the system based on C#.

School of Software, Beihang University   *Aug 2018 - Sep 2018*

Teaching Assistant of The Practice of Programming   *Beijing*

- Responsible for the basic directions of ML and Python.
- The course is a summer program 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

Community and Organizational Experience

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