

Jiaying Xu

+86156-5257-6713 | jiaying_xu@outlook.com

Beihang University, Xueyuan Road No.37, Beijing, China | <https://angusmonroe.github.io/>



EDUCATION

Beihang University, BUAA

Beijing, China

BS in Software Engineering

Sep 2016 - Jun 2020

Nanyang Technological University, NTU

Singapore

Visiting Student: Computer Science and Engineering

Jul 2019 - Sep 2019

PUBLICATION

- **Jiaying Xu**, Jianbin Cui, Zhaoyu Wang, Jiangneng Li, Wenge Rong and Noboru Matsuda. Entity Aware Syntax Tree Based Data Augmentation for Natural Language Understanding. In Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT'21) (submitted).
- Jiangneng Li*, **Jiaying Xu***, Cheng LongGao Cong. Predicting Sports Trajectory under Team Aware Situations. In Proceedings of the 27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'21) (submitted) (* means equal contribution).
- Xinhang Li, Yong Zhang, **Jiaying Xu**, Chunxiao Xing, Xia Wang and Jin Wang. IMF: Interactive Multimodal Fusion Model for Link Prediction. In Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL'21) (submitted).
- Wei Shao, Yihan He, Shuqi Liu, **Jiaying Xu** and Linqi Song. An Embedding Regularized Neural Topic Model. In Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL'21) (submitted).
- Yanqiu Song, Hang Su, Defang Yuan, **Jiaying 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

Automatic Drive Group, SenseTime Group Limited

Beijing, China

Research Assistant

Jun 2018 - Present

Development and Implement of Better 3D Object Detection

- Use geometric constraints and front/rear frame information to improve the 3D object detection in autonomous driving scenario.

Knowledge Computing Group, Microsoft Research Asia

Beijing, China

Research Assistant, advised by Börje Karlsson

Dec 2019 - Jun 2020

Enhancing Meta-Learning and Active Learning for Cross-lingual Named Entity Recognition with Minimal Resources

- Focused on named entity recognition (NER), studied its solution about transferring knowledge from rich-resource languages for languages with no annotated resources.
- Proposed a novel method of fine-tuning 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.
- Presented an active learning algorithm for quickly finding informative samples from unlabeled data in order to fast improve the performance of our model.

Big Data Mining Team, Microsoft Research Asia

Beijing, China

Research Assistant, advised by Börje Karlsson

Mar 2019 - Jun 2019

- Devised and developed the intelligent assistant Enterprise Deep Intelligence(EDI).

- Completed dialog management of the system with C#.

Knowledge Engineering Group, Tsinghua University

Beijing, China

Research Assistant, advised by Jie Tang

Jun 2018 - Jul 2020

Development and Implement of AMiner Dialog System NER and Chatbot

- Constructed the chatbot using BiLSTM-CRF-NER model and LSTM classifier, and assisted users to define question rules with the interactive visualized syntax tree.

Compute Intelligence Lab, Nanyang Technological University

Singapore

Research Assistant, Advised by Yiping Ke

Jul 2019 - Sep 2019

Research on GNN+dialog system

- Constructed a graph using the knowledge, self-learned the construction feature from the graph through GNN, and combined the GNN output with the origin encoder in order to improve the dialog agent.
- Conducted tasks of TAS-LSTM and strengthened the trajectory prediction effect with the information of graph format.

School of Software, Beihang University

Beijing, China

Teaching Assistant of the course Practice of Programming

Aug 2018 - Sep 2018

- Gave academic instructions on Machine Learning and Python for students during the lesson.
- Provided advice for students to familiarize with the engineering process and develop a complete project independently.

Jiuyi (Beijing) Information Technology Co., Ltd.

Beijing, China

R&D Engineer , Research and Development Department

Jun 2017 - Sep 2018

- Led the team work on research and development of the "Intelligent Interrogation" internship project, and completed training Word2vec and LDA models.
- Accomplished classifying the symptoms in the disease library through machine learning methods, and realized the function of recommending suitable medication according to the symptoms of different patients.

LEADERSHIP EXPERIENCE

Xiao Tan Academic Dialogue System

Beijing, China

Position: First Author

Jan 2019 - Jun 2019

- Studied on 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.
- Completed analysis on professional capacity and characteristics for team members in order to make arrangements for the project and assign tasks.
- Conducted tasks of model designing and data processing independently.

Intelligent Interrogation System Based on Natural Language Processing

Beijing, China

Position: First Author

Jul 2017 - May 2018

- Completed meeting organizing and missions assigning for the team, and got funded with 7500 yuan for research from the Beijing University of Aeronautics and Astronautics Innovation and Entrepreneurship Program.
- Completed tasks of data acquisition and model training, highly praised by the judges and won the 3rd Prize of the 28th Feng Ru Cup Science and Technology Competition.

Community and Organizational Experience

Student Union of Software School, BUAA

Beijing, China

Position: Minister

Jul 2017 - Jul 2019

- Worked on building the strong bonds between the contact agency and the company to provide financial support for various activities of the college and to cooperate with other school colleges.
- Participated in and worked as one of the core organizing staffs for the 2017 Amethyst Ten School Ballroom and the Microsoft Asia Academy Internship Sharing Session.

HP Dream Works

Beijing, China

Position: Campus Captain

Jul 2017 - Jul 2019

- Hosted the "HP Campus" Campus Engineer Training Program, participated in HP product research twice, and worked in two "HP Service Day" events.

HONORS & AWARDS

- Software College Innovation and Entrepreneurship Scholarship 2019
- Software College Excellent Student Leader Award 2019
- Yuanhang Undergraduate Summer Overseas Research Scholarship 2019
- 3rd Prize of the 29th Feng Ru Cup Science and Technology Competition 2019
- Software College Innovation and Entrepreneurship Scholarship 2018
- 3rd Prize of the 28th Feng Ru Cup Science and Technology Competition 2018
- Software College Excellent Student Leader Award 2017