Jiaxing Xu

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EDUCATION

Nanyang Technological University, NTU	**Singapore**
PhD Student: Computer Science and Engineering	Aug 2021 - Present
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

- **Jiaxing Xu***, Yunhan Yang*, David Tse Jung Huang*, Sophi Shilpa Gururajapathy*, Yiping Ke, Miao Qiao, Alan Wang, Haribalan Kumar, Josh McGeown, and Eryn Kwon. Data-Driven Network Neuroscience: On Data Collection and Benchmark. In Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS'23)

- Mengcheng Lan, Xinjiang Wang, Yiping Ke, **Jiaxing Xu**, Litong Feng, and Wayne Zhang. SmooSeg: Smoothness Prior for Unsupervised Semantic Segmentation. In Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS'23).

- Qingtian Bian, **Jiaxing Xu**, Hui Fang, CPMR: Context-Aware Incremental Sequential Recommendation with Pseudo-Multi-Task Learning. In Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (CIKM'23). **Oral**

- **Jiaxing Xu**, Aihu Zhang, Qingtian Bian, Yiping Ke. Union Subgraph Neural Network. arXiv preprint arXiv:2305.15747 (2023).

- Xinhang Li, Xiangyu Zhao, **Jiaxing Xu**, Yong Zhang, Chunxiao Xing. IMF: Interactive Multimodal Fusion Model for Link Prediction. In Proceedings of The ACM Web Conference (WWW'23).

- **Jiaxing Xu**, Jinjie Ni, Sophi Shilpa Gururajapathy, Yiping Ke. A Class-Aware Representation Refinement Framework for Graph Classification. arXiv preprint arXiv:2209.00936 (2022).

- **Jiaxing Xu**, Jianbin Cui, Jiangneng Li, Wenge Rong, Noboru Matsuda. "Entity Aware Syntax Tree Based Data Augmentation for Natural Language Understanding." arXiv preprint arXiv:2209.02267 (2022).

- 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	**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.

CONFERENCE/JOURNAL REFEREE

- AAAI Conference on Artificial Intelligence (AAAI), 2024
- Engineering Applications of Artificial Intelligence (EAAI), 2022
- Memetic Computing (MEME), 2021

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