

Xiao Xu

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RESEARCH INTERESTS Vision-Language Learning, Task-oriented Dialogue System, Natural Language Processing.

EDUCATION *Ph.D. Student*, Harbin Institute of Technology, China 2020.09 - Present
Major: Computer Science. Advisor: Wanxiang Che
B.E., Northeastern University, China 2016.09 - 2020.06
Major: Software Engineer

PUBLICATIONS ManagerTower: Aggregating the Insights of Uni-Modal Experts for Vision-Language Representation Learning.
Xiao Xu, Bei Li, Chenfei Wu, Shao-Yen Tseng, Anahita Bhiwandiwalla, Shachar Rosenman, Vasudev Lal, Wanxiang Che, Nan Duan.
Proceedings of the 61th Annual Meeting of the Association for Computational Linguistics (ACL). Oral. 2023.

BridgeTower: Building Bridges Between Encoders in Vision-Language Representation Learning.
Xiao Xu, Chenfei Wu, Shachar Rosenman, Vasudev Lal, Wanxiang Che, Nan Duan.
Proceedings of the AAAI Conference on Artificial Intelligence (AAAI). Oral. 2023.

Text is no more Enough! A Benchmark for Profile-based Spoken Language Understanding.
Xiao Xu^{*}, Libo Qin^{*}, Kaiji Chen, Guoxing Wu, Linlin Li, Wanxiang Che.
Proceedings of the AAAI Conference on Artificial Intelligence (AAAI). Oral. 2022.

Modularized Pre-training for End-to-end Task-oriented Dialogue.
Libo Qin, **Xiao Xu**, Lehan Wang, Yue Zhang, Wanxiang Che.
IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP). 2023.

AGIF: An Adaptive Graph-Interactive Framework for Joint Multiple Intent Detection and Slot Filling.
Libo Qin, **Xiao Xu**, Wanxiang Che, Ting Liu.
Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings (EMNLP-Findings). 2020.

Dynamic Fusion Network for Multi-Domain End-to-end Task-Oriented Dialog.
Libo Qin, **Xiao Xu**, Wanxiang Che, Yue Zhang, Ting Liu.
Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL). 2020.

OpenSLU: A Unified, Modularized, and Extensible Toolkit for Spoken Language Understanding.
Libo Qin, Qiguang Chen, **Xiao Xu**, Yunlong Feng, Wanxiang Che.
Arxiv Preprint. 2023.

A Two-Stage Framework with Self-Supervised Distillation For Cross-Domain Text Classification.
Yunlong Feng, Bohan Li, Libo Qin, **Xiao Xu**, Wanxiang Che.
Arxiv Preprint. 2023.

A Preliminary Evaluation of ChatGPT for Zero-shot Dialogue Understanding.

Wenbo Pan, Qiguang Chen, **Xiao Xu**, Wanxiang Che, Libo Qin.
Arxiv Preprint. 2023.

Semantic-Guided Image Augmentation with Pre-trained Models.
Bohan Li, Xinghao Wang, **Xiao Xu**, Yutai Hou, Yunlong Feng, Feng Wang, Wanxiang Che.
Arxiv Preprint. 2023.

GL-GIN: Fast and Accurate Non-Autoregressive Model for Joint Multiple Intent Detection and Slot Filling.
Libo Qin, Fuxuan Wei, Tianbao Xie, **Xiao Xu**, Wanxiang Che, Ting Liu.
Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL). Oral. 2021.

Don't be Contradicted with Anything! CI-ToD: Towards Benchmarking Consistency for Task-oriented Dialogue System.
Libo Qin, Tianbao Xie, Shijue Huang, Qiguang Chen, **Xiao Xu**, Wanxiang Che.
Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP). Poster. 2021.

IPGAN: Generating Informative Item Pairs by Adversarial Sampling.
Guibing Guo, Huan Zhou, Bowei Chen, Zhirong Liu, **Xiao Xu**, Xu Chen, Zhenhua Dong, Xiuqiang He.
IEEE Transactions on Neural Networks and Learning Systems (TNNLS). 2020.

EXPERIENCES	Research Intern in MSRA NLC Group, Beijing, China. Topic: Vision-Language Learning. Advisor: Chenfei Wu, Nan Duan.	2022.01 - 2023.01
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SERVICES	Conference Reviewer: ACL 2023, AAAI 2023, EMNLP 2022, NLPCC 2022 & 2023. Community: MLNLP-2022 Outstanding Organizer.	
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SKILLS	Programming: Python, C/C++, Java, Shell, PyTorch, TensorFlow.	
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AWARDS	National Encouragement Scholarship (for undergraduate student) (4/293)	2019
	Mathematical Contest In Modeling, Meritorious Winner (7.09%)	2019
	National Scholarship (for undergraduate student) (5/293)	2018
	National Scholarship (for undergraduate student) (10/420)	2017
	Top Ten Campus Singers of Northeastern University (Hunnan)	2016