Personal Information	Nationality: China Telephone: (+86) 137 5002 0916 Email: xuzn@mail2.sysu.edu.cn
Research Interest	Natural Language Processing Image: Pre-trained Model
	 Graphs Mining Dynamic Attributed Network Embedding Textual Graph Embedding
Education	Sun Yat-sen University (SYSU), Guangzhou City, China Sep. 2013 – Now
	 PhD candidate in School of Computer Science and Engineering Sep. 2019 – Now Major: Computer Science Supervisors: Prof. Qinliang Su, Prof. Xiaojun Quan
	 M.E. in School of Computer Science and Engineering Major: Software Engineering Supervisor: Prof. Yanghui Rao Ranked first in the postgraduate entrance examination
	 B.E. in School of Computer Science and Engineering Sep. 2013 – Jun. 2017 Major: Software Engineering
Research Experience	Microsoft Research Asia (MSRA), Beijing City, China Supervisors: Duyu Tang and Ming Gong
	Pre-trained Model Mar. 2020 – Jan. 2021
	 We present SEPREM that leverage syntax information to enhance pre-trained models. (Accepted by ACL 2021) To inject syntactic information, we introduce a syntax-aware attention layer and a newly designed pre-training task are proposed. Experimental re-sults show that our method achieves state-of-the-art performance over six datasets. Further analysis shows that the proposed dependency distance prediction task performs better than dependency head prediction task.
	Cooperation
	 We presented a graph-based reasoning approach for Fact Checking, where the semantic structure of evidence is mined and further leveraged to verify the truthfulness of the claim. (Accepted by ACL 2020) We present FAST, a graph-based reasoning approach utilizing fine-grained factual knowledge for DeepFake Detection of text. (Accepted by EMNLP 2020)
	School of Computer Science and Engineering, SYSU, Guangzhou City, China
	Supervisors: Prof. Qinliang Su and Prof. Xiaojun Quan
	Dynamic Attributed Graph Embedding Oct. 2019 – Jan. 2020
	 Many methods have been proposed to effectively embed each node in a static network into a low-dimension vector, but in many real world applications, networks are dynamic and evolving over time; (Accepted by COLING 2020) A challenging task is to predict the potential evolution trends based on the historical evolution of network;

• We are trying to understanding the formation and evolution of the network in dynamic environment over high-order spatio-temporal dimension.

Textual Graph Embedding

Oct. 2018 – Sep. 2019

- We proposed a novel deep neural architecture to effectively fuse the structural and textual informations in network; (Accepted by **EMNLP 2019**)
- A complementary information fusing method is designed to address the information duplication problem in structural and textual features;
- A mutual gate is further developed to highlight the textual information in a node that is consistent with the textual contents of neighboring nodes, while diminishing those that are conflicting to each other.

Supervisor: Prof. Yanghui Rao

Sentiment Classification over Text Sep. 2017 – Sep. 2018

- We introduced supplementary information to tackle the sentiment reversing effect of negation words and also the sentiment shifting effect of intensity words. (Accepted by **APWeb-WAIM 2018**)
- We put forward the concept and extraction method of sentimental context to improve the performance on sentiment classification task. (Accepted by BESC 2017)
- PUBLICATION 1. Zenan Xu, Daya Guo, Duyu Tang, Qinliang Su, Linjun Shou, Ming Gong, Wanjun Zhong, Xiaojun Quan, Daxin Jiang, and Nan Duan. Syntax-Enhanced Pretrained Model. Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021). Full paper. To appear.
 - Zenan Xu, Zijing Ou, Qinliang Su, Jianxing Yu, Xiaojun Quan, and Zhenkun Lin. Embedding Dynamic Attributed Networks by Modeling the Evolution Processes. Proceedings of the 28th International Conference on Computational Linguistics (COLING 2020). Full paper. To appear.
 - 3. Wanjun Zhong, Duyu Tang, **Zenan Xu**, Ruize Wang, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin. Neural Deepfake Detection with Factual Structure of **Text.** The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020).
 - 4. Wanjun Zhong, Jingjing Xu, Duyu Tang, **Zenan Xu**, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin. **Reasoning Over Semantic-Level Graph for Fact Checking.** *The 58th Annual Meeting of the Association for Computational Linguistics* (ACL 2020).
 - 5. Zenan Xu, Qinliang Su, Xiaojun Quan, and Weijia Zhang. A Deep Neural Information Fusion Architecture for Textual Network Embeddings. *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing* (EMNLP 2019). Full paper. To appear.
 - 6. Zenan Xu, Yetao Fu, Xingming Chen, Yanghui Rao, Haoran Xie, Fu Lee Wang, and Yang Peng. Sentiment Classification via Supplementary Information Modeling. *Proceedings of the 2018 Asia-Pacific Web and Web-Age Information Management Joint International Conference on Web and Big Data.* (APWeb-WAIM 2018).
 - Wenjie Zheng, Zenan Xu, Yanghui Rao, Haoran Xie, Fu Lee Wang, and Reggie Kwan. Sentiment Classification of Short Text using Sentimental Context. Proceedings of the 2017 International Conference on Behavioral, Economic, Socio-cultural Computing. (BESC 2017).