XIAOQIAN SHEN CURRICULUM VITAE

Address：Qianjin Road 2699#, Changchun, Jilin, China

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Enthusiastic 4th year undergraduate student seeking a master or doctoral position related to **Computer Science & Artificial Intelligence** starting in Fall 2022

Education Background

09/2018 – Present: undergraduate study, Major in **Computer Science**

Dept. of Computer Science and Technology, **Jilin University**, Changchun, China

GPA: 90.27/100 (3.73/4.0)

Research Experiences

2021	Prof. **Zhenghua Xu**'s group (**Xu** is an External D.Phil Supervisor of University of Oxford), Hebei University of Technology, China
	Project: **Self-supervised Learning for medical image segmentation**
	✓ Learned contrastive learning and Multimodal Representation;
	✓ Assisted in ablation study and fine-tuning models on downstream tasks.
2021	Prof. **Yongfeng Huang**'s group, Tsinghua University, China
	Project: **Medical relation extraction for Chinese medicine instructions**
	✓ Mastered BERT and LSTM framework for text modeling and representations of characters;
	✓ Built up a deep model incorporated with medical knowledge to better predict relations between entities.
2020 - Present	Prof. **Xiaoli Zhang**'s group, Jilin University, China
	Project: **Gaze correction for video chatting based on CNN**
	(Xiaoqian Shen as PI in the project)
	✓ Proposed Gaze correction for video chatting to address virtual communication problems;
	✓ Conducted the whole experimental process independently, including collecting data and building up sophisticated neural network.
2020	Dr. **Ye Zhu**, Hebei University of Technology, China
	Project: **Image Splicing Location Based on Illumination Maps and Cluster Region Proposal Network**
	✓ Grasped Grey-Edge (GE) and Inverse-Intensity Chromaticity (IIC) to extract the inconsistent features and the mechanism of Feature Pyramid Network (FPN);
	✓ Proposed Multiple Feature Pyramid Network (MFPN) to fuse the feature maps at multiple scale in bottom-up and top-down stages;

✓ Assisted in ablation experiments and robustness analysis.

Awards

- Academic Scholarship in Jilin University in the year of 2019 and 2020;
- The First Award in Jilin Provincial Final of English Writing Contest in 2020;
- The First Prize Award in the Preliminary Round of the 2020 "FLTRP·ETIC Cup" English Reading Contest;
- The Third Prize for the National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction in 2020.

Software Copyright and Publications

1. **Xiaoqian Shen**, A soft for eye gaze correction in video chat, Software Copyright in China: 2021SR0800889, 2021.
2. Tao Qi, Shan Qiu, **Xiaoqian Shen**, Haopu Chen, Shuai Yang, Hao Wen, Ya Zhang, Yuanqing Wu, Yongfeng Huang, KeMRE: Knowledge-enhanced medical relation extraction for Chinese medicine instructions, Journal of Biomedical Informatics, 120, 2021,103834.
3. Ye Zhu, **Xiaoqian Shen** (Co-first author), Shikun Liu, Gang Yan, Xiaoli Zhang, Image Splicing Location Based on Illumination Maps and Cluster Region Proposal Network, Applied Science, 2021, 11, 8437.
4. Jiaojiao Zhang, Shuo Zhang, **Xiaoqian Shen**, Zhenghua Xu, Thomas Lukasiewicz, Multi-ConDoS: Multimodality Contrastive Domain Sharing for Self-Supervised Medical Image Segmentation, submitted to AAAI, 2022.

Language Skills

08/2021	TOEFL R: 29 L: 27 S: 21 W: 27 Total: 104 **(104/120)**
02/2021	GRE V: 158 Q: 170 AW: 3.5 Total: 328 **(328/340)**

Academic skill

- **Programming:** Python, C/C++, Java, LaTex;
- **Mathematics:** Calculus, Linear Algebra, Probability and Statistics, Discrete Mathematics;
- Extensive experience in Data Structure and Algorithm Analysis, Database, Computer Network, Machine Learning.