

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

**E-mail:** [shenxq2118@mails.jlu.edu.cn](mailto:shenxq2118@mails.jlu.edu.cn)    **Tel:** +86-13642093218

Enthusiastic 4<sup>th</sup> 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: 90.26/100 (3.73/4.0)**

### Research Experiences

---

- |                |  |
|----------------|--|
| 2021           | Prof. <b>Zhenghua Xu</b> 's group ( <b>Xu</b> is an External D.Phil Supervisor of <a href="#">University of Oxford</a> ), Hebei University of Technology, China<br>Project: <b>Self-supervised Learning for medical image segmentation</b> <ul style="list-style-type: none"><li>✓ Learned contrastive learning and Multimodal Representation;</li><li>✓ Assisted in ablation study and fine-tuning models on downstream tasks.</li></ul>                                |
| 2021           | Prof. <b>Yongfeng Huang</b> 's group, Tsinghua University, China<br>Project: <b>Medical relation extraction for Chinese medicine instructions</b> <ul style="list-style-type: none"><li>✓ Learned BERT and LSTM framework for text modeling and representations of characters;</li><li>✓ Assisted in building a deep model incorporated with medical knowledge to better predict relations between entities.</li></ul>   |
| 2020 - Present | Prof. <b>Xiaoli Zhang</b> 's group, Jilin University, China<br>Project: <b>Gaze correction for video chatting based on CNN</b> ( <a href="#">Xiaoqian Shen as PI in the project</a> ) <ul style="list-style-type: none"><li>✓ Proposed Gaze correction for video chatting to address virtual communication problems;</li><li>✓ Conducted the whole experimental process independently, including collecting data and building up sophisticated neural network.</li></ul> |
| 2020           | Dr. <b>Ye Zhu</b> , Hebei University of Technology, China<br>Project: <b>Image Splicing Location Based on Illumination Maps and Cluster Region Proposal Network</b> <ul style="list-style-type: none"><li>✓ Learned Grey-Edge (GE) and Inverse-Intensity Chromaticity (IIC) to extract the inconsistent features and the mechanism of Feature Pyramid Network (FPN);</li></ul>   |

- ✓ 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, Submitted to Computational Intelligence and Neuroscience, 2021.

## Language Skills

---

03/2021	TOEFL R: 26 L: 29 S: 19 W: 23 Total: 97 <b>(97/120)</b> (The second TOEFL examination is under preparation)
02/2021	GRE V: 158 Q: 170 AW: 3.5 <b>(328/340)</b>

## Technical Highlights

---

- Extensive experience in data structure and algorithm analysis, database, computer network, machine learning
- Familiar with C programming language, C++, java, Python, MATLAB etc

## Attachment

1. Undergraduate Academic Transcript
2. Award certificate
3. Software and publication
4. Score of TOEFL and GRE