

# XIANGYU LI

✉ lxcust@gmail.com · ☎ (+86) 188-456-10648

🌐 Homepage · Google Scholar

## 🎓 EDUCATION

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|---|----------------|
| <b>Harbin Institute of Technology (HIT)</b> , Harbin, China<br><i>Ph.D. Candidate</i> in Computer Science (CS).                                   | 2018 – Present |
| <b>Harbin Institute of Technology (HIT)</b> , Harbin, China<br><i>Master student</i> in Optical Engineering.                                      | 2016 – 2018    |
| <b>Changchun University of Science and Technology (CUST)</b> , Changchun, China<br><i>B.S. student</i> in Optoelectronic Information Engineering. | 2010 – 2014    |

## 🧑‍🔬 RESEARCH INTERESTS

My research mainly focuses on deep learning-based medical image analysis, especially on learning with imperfect labels. Moreover, I am also super interested in uncertainty estimation of deep neural networks and its applications in medical image analysis.

## 📖 PUBLICATIONS

1. **Xiangyu Li**, Gongning Luo, Wei Wang, Kuanquan Wang and Shuo Li. "Curriculum Label Distribution Learning for Imbalanced Medical Image Segmentation." in *Medical Image Analysis* 89(2023):102911. (*Top Journal; IF=10.9*)
2. **Xiangyu Li**, Gongning Luo, Wei Wang, Kuanquan Wang, Yue Gao, Shuo Li. "Hematoma Expansion Context Guided Intracranial Hemorrhage Segmentation and Uncertainty Estimation," in *IEEE Journal of Biomedical and Health Informatics*, 26(3): 1140-1151. (*Top Journal; IF=7.7*)
3. **Xiangyu Li**, Xinjie Liang, Gongning Luo, Wei Wang, Kuanquan Wang and Shuo Li. "ULTRA: Uncertainty-Aware Label Distribution Learning for Breast Tumor Cellularity Assessment." *Medical Image Computing and Computer-Assisted Intervention (MICCAI)*, pp. 303-312. Springer, Cham, 2022 (*Top conference*)
4. **Xiangyu Li**, Gongning Luo, Kuanquan Wang. "Multi-step cascaded networks for brain tumor segmentation." *Medical Image Computing and Computer-Assisted Intervention (MICCAI)-BrainLes*. pp.163-173 Springer, Cham, 2019.
5. **Xiangyu Li**, Gongning Luo, Kuanquan Wang, ... & Shuo Li. (2023). The state-of-the-art 3D anisotropic intracranial hemorrhage segmentation on non-contrast head CT: The INSTANCE challenge. arXiv preprint arXiv:2301.03281.

## ♡ HONORS AND AWARDS

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|--|-----------|
| 1. Excellent graduate student, Harbin Institute of Technology                          | Jun. 2023 |
| 2. First Class of Academic Scholarship, Harbin Institute of Technology                 | Sep. 2018 |
| 3. Second Class of Academic Scholarship, Harbin Institute of Technology                | Jun. 2017 |
| 4. Daheng Wang' scholarship, Changchun University of Science and Technology            | Jun. 2018 |
| 5. First Class of Academic Scholarship, Changchun University of Science and Technology | Jun. 2012 |
| 6. First Class of Academic Scholarship, Changchun University of Science and Technology | Jun. 2011 |

## ⚙️ SKILLS

- Programming Languages: Python > C# > Matlab
- Platform: Pytorch, Tensorflow, Linux, 3D Slicer.

## ♡ SERVICES

**Reviewer:** IEEE-JBHI, MedIA, MICCAI, TMI.