

QIXIN HU

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*Department of Computer Science and Engineering,
The Chinese University of Hong Kong, Hong Kong.*

EDUCATION

- Huazhong University of Science and Technology, M.Sc.** *2020 - 2023*
• Research Interests: computer vision, medical image analysis, 3D vision. *Wuhan, China*
- Huazhong University of Science and Technology, B.Sc.** *2016 - 2020*
• GPA: 3.90/4.00 *Wuhan, China*

PUBLICATIONS

5. **Qixin Hu**, Alan L. Yuille, Zongwei Zhou. “*Synthetic Data as Validation.*” Submitted to The International Conference on Learning Representations (**ICLR**) 2024.
🔗 [\[Paper\]](#) [\[Code\]](#)
4. Jiacong Xu, ..., **Qixin Hu**, et al. “*Animal3D: A Comprehensive Dataset of 3D Animal Pose and Shape.*” The IEEE/CVF International Conference on Computer Vision (**ICCV**) 2023.
🔗 [\[Paper\]](#) [\[Code\]](#) [\[Project\]](#)
3. **Qixin Hu**, Yixiong Chen, Junfei Xiao, Shuwen Sun, Jie-Neng Chen, Alan L. Yuille, Zongwei Zhou. “*Label-Free Liver Tumor Segmentation.*” The IEEE/CVF Computer Vision and Pattern Recognition Conference (**CVPR**) 2023.
🐙 **GitHub Stars: 200+**
🔗 [\[Paper\]](#) [\[Code\]](#) [\[Slides\]](#) [\[Poster\]](#) [\[Zongwei’s Talk\]](#) [\[Alan’s Talk\]](#) [\[My Talk\]](#)
2. **Qixin Hu**, Junfei Xiao, Yixiong Chen, Shuwen Sun, Jie-Neng Chen, Alan L. Yuille, Zongwei Zhou. “*Synthetic Tumors Make AI Segment Tumors Better.*” Medical Imaging meets Neural Information Processing Systems (**NeurIPS**) 2022.
🔗 [\[Paper\]](#) [\[Code\]](#)
1. **Qixin Hu**, Siyan Xu, Xue-wen Chen, et al. “*Object Recognition for Remarkably Small Field-of-view with Speckles.*” Applied Physics Letters (**APL**) 2021.
🔗 [\[Paper\]](#)

RESEARCH EXPERIENCE

- Foundation Models on Medical Image, CUHK** *Hong Kong, China*
Advisor: Prof. Dou Qi *Sep. 2023 – Now*
• **Achievement:** Rank **top 0.5% (4/847)** in a competition of Foundation Models in medical imaging.
- Label-efficient Learning Methods, Johns Hopkins University** *Baltimore, United States*
Advisors: Prof. Alan L. Yuille & Dr. Zongwei Zhou *June 2022 – Now*
• **Achievements:** NIPS 2022, CVPR 2023, ICCV 2023, ICLR 2024.
- 3D Vision on Human Reconstruction, Tsinghua University** *Beijing, China*
Advisors: Prof. Yebin Liu *June 2021 – Sep. 2021*
• **Research Intern.** Image-based 3D human reconstruction (NeRF, PiFu, etc.).

Object Recognition with Small Field-of-View, HUST

Advisors: Prof. Xinggang Wang

- **Achievement:** APL 2021.

Wuhan, China
Sep. 2020 – June 2021

National Student Inno. and Entre. Training Program, HUST

Advisors: Prof. Ming Yang

- **Team Leader:** We took advantage of Chua's circuit to build a real random number generator.

Wuhan, China
April 2019 – April 2020

SELECTED AWARDS

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|------|---|
| 2022 | First Class Zhixing Outstanding Student Scholarship, |
| 2021 | Outstanding Graduate Student, |
| 2020 | Honored Undergraduates, |
| 2018 | National Encouragement Scholarship, |

INVITED TALKS AND PRESENTATIONS

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|---|------------------------------|
| 6. Label-efficient, Multi-functional AI System for Medical and Healthcare.
The Chinese University of Hong Kong. | <i>Nov. 2023</i> |
| 5. CLIP-Driven Universal Model for Organ Segmentation and Tumor Detection.
AI Journal Club. | <i>July 2023</i> |
| 4. Label-free Liver Tumor Segmentation.
NIPSW/CVPR/VALSE/MICS. | <i>Feb. 2023 – June 2023</i> |
| 3. Synthetic Tumors Make AI Segment.
Johns Hopkins University. | <i>Oct. 2022</i> |
| 2. Non-line-of-sight Object Recognition with Coherent Illumination.
IBPE, Huazhong University of Science and Technology. | <i>Sep. 2022</i> |
| 1. Random Number Generation System Based on Chai's Circuits.
Hubei University. | <i>April 2020</i> |

MISCELLANEOUS

Professional Activities

- Reviewer of ICML Workshop on Interpretable Machine Learning in Healthcare (IMLH 2023)

Professional Memberships

- Member of the Institute of Electrical and Electronics Engineers (IEEE, since 2022)
- Member of the Computer Vision Foundation (CVF, since 2022)

Software

- Label-Free Liver Tumor Segmentation (CVPR 2023)
GitHub: <https://github.com/MrGiovanni/SyntheticTumors>

Leaderships

- Team Leader of National Student Innovation and Entrepreneurship Training Program, HUST. 2019-2020.
- Leading Members of the Innovative Base of Physics Experiment, HUST. 2018-2020.