



# JUNFEI XIAO

Baltimore, Maryland

<https://lambert-x.github.io>

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## Education

**Johns Hopkins University**

*Ph.D. in Computer Science*

**2022 -**

*Baltimore, Maryland*

**Johns Hopkins University**

*M.S.E in Computer Science, GPA: 3.97/4.0*

**Sep. 2019 – May 2021**

*Baltimore, Maryland*

**Beihang University**

*B.E. in Mechanical Engineering, Double Degree in Mathematics, GPA: 3.8/4.0 (Top 2%)*

**Sep. 2015 – June 2019**

*Beijing, China*

## Experience

**Google Research**

*Student Researcher*

**July. 2023 – Present**

*Mountain View, California*

**CCVL Lab, Johns Hopkins University**

*Research Assistant, Advisor: Alan Yuille*

**Sep. 2021 – Present**

*Baltimore, Maryland*

**CCVL Lab, Johns Hopkins University**

*Research Intern, Advisor: Alan Yuille*

**June 2020 – Sep. 2021**

*Baltimore, Maryland*

## Publications and Manuscripts

- [10] **Junfei Xiao**, Ziqi Zhou, Wenxuan Li, Shiyi Lan, Jieru Mei, Zhiding Yu, Alan Yuille, Yuyin Zhou, and Cihang Xie. “A Semantic Space is Worth 256 Language Descriptions: Make Stronger Segmentation Models with Descriptive Properties”. In: *arXiv preprint arXiv:2312.13764* (2023).
- [9] Sucheng Ren, Zeyu Wang, Hongru Zhu, **Junfei Xiao**, Alan Yuille, and Cihang Xie. “Rejuvenating image-GPT as Strong Visual Representation Learners”. In: *arXiv preprint arXiv:2312.02147* (2023).
- [8] Jie Liu, Yixiao Zhang, Jie-Neng Chen, **Junfei Xiao**, Yongyi Lu, Bennett A Landman, Yixuan Yuan, Alan Yuille, Yucheng Tang, and Zongwei Zhou. “Clip-driven universal model for organ segmentation and tumor detection”. In: *International Conference on Computer Vision (ICCV)* (2023).
- [7] Qixin Hu, Yixiong Chen, **Junfei Xiao**, Shuwen Sun, Jie-Neng Chen, Alan Yuille, and Zongwei Zhou. “Label-Free Liver Tumor Segmentation”. In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)* (2023).
- [6] Yutong Bai, Zeyu Wang, **Junfei Xiao**, Chen Wei, Huiyu Wang, Alan Yuille, Yuyin Zhou, and Cihang Xie. “Masked Autoencoders Enable Efficient Knowledge Distillers”. In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)* (2023).
- [5] **Junfei Xiao**, Yutong Bai, Alan Yuille, and Zongwei Zhou. “Delving into Masked Autoencoders for Multi-Label Thorax Disease Classification”. In: *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*. 2023.
- [4] Qixin Hu, **Junfei Xiao**, Yixiong Chen, Shuwen Sun, Jie-Neng Chen, Alan Yuille, and Zongwei Zhou. “Synthetic Tumors Make AI Segment Tumors Better”. In: *NeurIPS Workshop* (2022).
- [3] **Junfei Xiao**, Lequan Yu, Zongwei Zhou, Yutong Bai, Lei Xing, Alan Yuille, and Yuyin Zhou. “CateNorm: Categorical Normalization for Robust Medical Image Segmentation”. In: *MICCAI Workshop on Domain Adaptation and Representation Transfer*. Springer. 2022, **(Best Paper Honorable Mention)**.
- [2] **Junfei Xiao**, Longlong Jing, Lin Zhang, Ju He, Qi She, Zongwei Zhou, Alan Yuille, and Yingwei Li. “Learning from Temporal Gradient for Semi-supervised Action Recognition”. In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)* (2022).
- [1] Siqi Wang, Lei Li, Yufeng Chen, Yueping Wang, Wenguang Sun, **Junfei Xiao**, Dylan Wainwright, Tianmiao Wang, Robert J Wood, and Li Wen. “A bio-robotic remora disc with attachment and detachment capabilities for reversible underwater hitchhiking”. In: *2019 International Conference on Robotics and Automation (ICRA)*. 2019.

## Honors and Awards

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<b>1st Place</b> in Robust Vision Challenge - Semantic Segmentation Track (ECCV 2022)	2022
<b>Best Paper Honorable Mention</b> - DART (MICCAI Workshop)	2022
Academic Excellence Award	2016, 2017, 2018
JJWorld Scholarship	2017
National Scholarship ( <b>Top 0.1%</b> national wide)	2016

## Service

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### Program Committee / Reviewer:

**ICML 2021/2022 Workshop** – Interpretable Machine Learning in Healthcare, **CVPR 2022 - 2024**, **ECCV 2022** ,  
**ICCV 2023**, **NIPS 2023**, **ICLR 2024**

## Technical Skills

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**Programming Languages:** Python, Matlab, C/C++, SQL, Ocaml, Julia

**Tools:**  $\text{\LaTeX}$ , Git, SolidWorks

**Deep Learning Frameworks:** Pytorch, Tensorflow

**GRE:** 162 (Verbal) + 170 (Math) + 3.5 (Writing)