

# 祝澜耘

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## 教育背景

Singapore University of Technology and Design (SUTD), 博士 2021.9 - 2025.1  
导师: [Prof. Jun Liu](#), [Prof. Soh De Wen](#)  
北京航空航天大学, 工学学士 2016.9 - 2020.6

## 研究方向

计算机视觉, 多模态大模型, 图像分割

## 代表性学术成果

完整论文列表请查看[谷歌学术主页](#)。CCF-A 一作论文合计: 5× CVPR, 1× ICCV, 1× TIP

### 会议论文

- **Lanyun Zhu**, Tianrun Chen, Qianxiong Xu, Xuanyi Liu, Deyi Ji, Haiyang Wu, De Wen Soh, Jun Liu, “POPEN: Preference-Based Optimization and Ensemble for LVLM-Based Reasoning Segmentation”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025. (CCF-A)
- **Lanyun Zhu**, Tianrun Chen, Deyi Ji, Jieping Ye, Jun Liu, “LLaFS: When Large Language Models Meet Few-Shot Segmentation”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024. (CCF-A) [论文]
- **Lanyun Zhu**, Tianrun Chen, Jianxiong Yin, Simon See, Jun Liu, “Addressing Background Context Bias in Few-Shot Segmentation through Iterative Modulation”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024. (CCF-A) [论文]
- **Lanyun Zhu**, Tianrun Chen, Jianxiong Yin, Simon See, Jun Liu, “Learning Gabor Texture Features for Fine-Grained Recognition”, *International Conference on Computer Vision (ICCV)*, 2023. (CCF-A) [论文]
- **Lanyun Zhu**, Tianrun Chen, Jianxiong Yin, Simon See, Jun Liu, “Continual Semantic Segmentation with Automatic Memory Sample Selection”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023. (CCF-A) [论文]
- **Lanyun Zhu**, Deyi Ji, Shiping Zhu, Weihao Gan, Wei Wu, Junjie Yan, “Learning Statistical Texture for Semantic Segmentation”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021. (CCF-A) [论文]
- Qianxiong Xu, Xuanyi Liu, **Lanyun Zhu**, Guosheng Lin, Cheng Long, Ziyue Li, Rui Zhao, “Hybrid Mamba for Few-Shot Segmentation”, *Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2024. (CCF-A)
- Deyi Ji, Feng Zhao, **Lanyun Zhu**, Wenwei Jin, Hongtao Lu, Jieping Ye. “Discrete Latent Perspective Learning for Segmentation and Detection”, *International Conference on Machine Learning (ICML)*, 2024. (CCF-A) [论文]
- Tianrun Chen\*, **Lanyun Zhu\***, Chaotao Ding, Runlong Cao, Shangzhan Zhang, Yan Wang, Zejian Li, Lingyun Sun, Papa Mao, Ying Zang. “SAM-Adapter: Adapting Segment Anything in Underperformed Scenes”, *ICCV2023 Workshop*. [论文] [代码] (Github 1000 Stars)
- Xiao Fu, Shangzhan Zhang, Tianrun Chen, Yichong Lu, **Lanyun Zhu**, Xiaowei Zhou, Andreas Geiger, Yiyi Liao. “Panoptic NeRF: 3D-to-2D Label Transfer for Panoptic Urban Scene Segmentation”, *International Conference on 3D Vision (3DV)*, 2022. (CCF-C) [论文] [项目]

### 期刊论文

- **Lanyun Zhu**, Tianrun Chen, Deyi Ji, Jieping Ye, Jun Liu, “Not Every Patch is Needed: Towards a More Efficient and Effective Backbone for Video-based Person Re-identification”, *IEEE Transactions on Image Processing*. (CCF-A)
- Tianrun Chen, Chaotao Ding, **Lanyun Zhu**, Ying Zang, Yiyi Liao, Zejian Li, and Lingyun Su, “Reality3DSketch: Rapid 3D Modeling of Objects from Single Free-hand Sketches”, *IEEE Transactions on Multimedia* (CCF-B)
- Yan Wang, Jian Cheng, Yixin Chen, Shuai Shao, **Lanyun Zhu**, Zhenzhou Wu, Tao Liu, Haogang Zhu. “FVP: Fourier Visual Prompting for Source-Free Unsupervised Domain Adaptation of Medical Image Segmentation”, *IEEE Transactions on Medical Imaging* (CCF-B) [论文]

- Zhikang Liu\*, **Lanyun Zhu\***. “Label-guided Attention Distillation for Lane Segmentation”, *Neurocomputing* (CCF-C) [论文]

## 在投论文

- **Lanyun Zhu**, Tianrun Chen, Deyi Ji, Peng Xu, Jieping Ye, Jun Li. “LLaFS++: Few-Shot Image Segmentation with Large Language Models”, 在投 *IEEE Transactions on Pattern Analysis and Machine Intelligence*

## 实习经历

**Johns Hopkins University**, 研究实习生 2021.7-2021.9

- 在 Alan Yuille 教授与 Yingwei Li 博士的指导下，利用深度估计作为辅助任务对语义分割进行增强。

**商汤科技**, 算法实习生 2020.6-2021.7

- 从事语义分割相关的研究与业务工作。
- 设计模型分割工地扬尘区域，实现 64% mIoU。
- 以第一作者身份完成一篇语义分割研究工作并发表于 **CVPR 2021**。

**旷视科技**, 算法实习生 2019.9-2020.5

- 从事语义分割与车道线检测相关的研究与业务工作。
- 优化业务中用于违章检测的车道线检测算法。
- 以共同第一作者身份完成一篇车道线检测工作并发表于期刊 *Neurocomputing*。

## 学术服务

### 会议审稿人

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- Advances in Neural Information Processing Systems (NeurIPS)
- International Conference on Machine Learning (ICML)
- International Conference on Learning Representations (ICLR)
- European Conference on Computer Vision (ECCV)
- Association for the Advancement of Artificial Intelligence (AAAI)
- ACM International Conference on Multimedia (ACM MM)
- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

### 期刊审稿人

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Industrial Informatics (TII)

### 组织者

- ICME2024 Grand Challenge –The 2nd Multi-Modal Video Reasoning and Analyzing Competition

## 学术讲座

### 大语言模型在小样本分割中的运用

- 阿里巴巴飞天实验室 2023.1

### 学习用于语义分割任务的统计化纹理特征

- AI TIME 论道 [推送] [视频] 2021.9
- 人工智能前沿讲习 [推送] [视频] 2021.5

## 荣誉/获奖

- 北京航空航天大学冯如杯科技竞赛一等奖第一作者 (Top2%, 2/100+), 2019 年
- 北京航空航天大学学术竞赛奖学金一等奖, 2019 年
- 新加坡 AISG 奖学金, 2021 年至 2025 年