

# LANYUN ZHU

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## EDUCATION

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**Singapore University of Technology and Design (SUTD)** Singapore  
*Ph.D. in Information Systems and Technology Design (ISTD)* 2021.9 -  
Advisor: [Prof. Jun Liu](#)  
**Beihang University (BUAA)** Beijing, China  
*B.S. in Information Engineering* 2016.9 - 2020.6

## RESEARCH DIRECTIONS

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Computer Vision, Image Segmentation

## SELECTED PUBLICATIONS

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For the full list, please see my [Google Scholar page](#)

### Conference Papers

- **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. [\[paper\]](#)
- **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. [\[paper\]](#)
- **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. [\[paper\]](#) [\[code\]](#)
- 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 [\[paper\]](#) [\[project\]](#)

### Journal Papers

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

### Preprint Papers

- Tianrun Chen\*, **Lanyun Zhu**\*, Chaotao Ding, Runlong Cao, Shangzhan Zhang, Yan Wang, Zejian Li, Lingyun Sun, Papa Mao, Ying Zang. “SAM Fails to Segment Anything? – SAM-Adapter: Adapting SAM in Underperformed Scenes: Camouflage, Shadow, Medical Image Segmentation, and More”, *Arxiv Preprint* [\[paper\]](#) [\[code\]](#) ([Github 520 Stars](#))

\* indicates equal contribution.

## INTERN EXPERIENCES

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**Johns Hopkins University** Research Intern, Jul 2021-Aug 2021  
Brief introduction: Working on research project about using depth estimation to enhance semantic segmentation, advised by Prof. Alan Yuille.

- Implementing a multi-task model to enhance semi-supervised segmentation by using depth estimation as a joint task.
- Achieving 3% improvement compared with SOTA

**Sensetime** Research Intern, Jun 2020-Jul 2021  
Brief introduction: Working on research works and engineering projects about semantic segmentation.

- Designing models for soot area segmentation, achieving 64% mIoU.
- Completing a paper about semantic segmentation published on CVPR2021.

## Megvii

Research Intern, Sep 2019-May 2020

Brief introduction: Working on research works and engineering projects about semantic segmentation and lane line detection.

- Designing models for lane line detection used for traffic condition monitoring.
- Completing a paper about lane line detection published on Neurocomputing.

## ACADEMIC SERVICE

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### Conference Reviewer

- Advances in Neural Information Processing Systems (NeurIPS)
- International Conference on Machine Learning (ICML)
- International Conference on Learning Representations (ICLR)
- ACM International Conference on Multimedia (ACM MM)
- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

### Journal Reviewer

- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Industrial Informatics (TII)

## SKILLS

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- Programming Languages: Python > MATLAB == C
- Deep Learning Framework: PyTorch » Tensorflow

## SELECTED HONORS AND AWARDS

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First Prize, Fengru Cup 2019 (Top 2%, 2/100+)	2019
1 <sup>st</sup> Class Scholarship for Academic Achievements, BUAA	2019
Second Prize, Fengru Cup 2020 (Top 10%)	2020
Honorable Mention, Mathematical Contest In Modeling	2019
AISG Ph.D. Fellowship	2021 – Present