

Ziyu Jiang

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RESEARCH INTERESTS	Semantic Segmentation, Multi-modality Fusion, Efficient Training, Neural Architecture Search	
EDUCATION	Texas A&M University , TX, USA Ph.D. in Computer Science , Jan 2019 - June 2023 <ul style="list-style-type: none">• Advisor: Zhangyang Wang M.S. in Computer Science , Aug 2017 - Dec 2018 <ul style="list-style-type: none">• Advisor: Zhangyang Wang• GPA: 3.96/4 Harbin Institute of Technology , Harbin, China B.E. in Electronic and Communication Engineering , Sep 2013 - July 2017 <ul style="list-style-type: none">• Thesis: Automatic License Plate Recognition System	
PUBLICATIONS	Ziyu Jiang* , Wuyang Chen*, Zhangyang Wang, Kexin Cui, Xiaoning Qian. Collaborative Global-Local Networks for Memory-Efficient Segmentation of Ultra-High Resolution Images. Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2019. Ziyu Jiang , Kate Von Ness, Julie Loisel, Zhangyang Wang. ArcticNet: A Deep Learning Solution to Classify Arctic Wetlands. 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW). IEEE, 2019.	
PENDING PUBLICATIONS	Ziyu Jiang* , Randy Ardywibowo*, Aven Samereh, Heather Evans, Bill Lober, Xiangyu Chang, Xiaoning Qian, Zhangyang Wang, Shuai Huang. A Roadmap for Automatic Surgical Site Infection (SSI) Detection and Evaluation using User-Generated Wound Images.	
EXPERIENCE	Research Intern NEC Research, San Jose, CA June - , 2019 Research on <i>Indoor scene understanding</i> . Mentors: Buyu, Liu <ul style="list-style-type: none">• Explore better algorithms for semantic segmentation of indoor scene. Texas A&M University, College Station, TX Sep 2018 - Apr 2019 Position: Graduate Research Assistant with Dr Zhangyang Wang <i>Collaborative Global-Local Networks for Memory-Efficient Segmentation of Ultra-High Resolution Images</i> <ul style="list-style-type: none">• Improving high resolution image segmentation performance by utilizing the high-resolution information in local image and the context information in global image.• Achieving memory-efficient segmentation on high resolution image by processing local crop image with global resize image.• Improving the performance of high imbalance image through a novel coarse-to-fine recognition method. <i>ArcticNet: A Deep Learning Solution to Classify Arctic Wetlands</i> <ul style="list-style-type: none">• Improving the accuracy from 82.11% to 93.12% by fusing the RGB data with corresponding NIR/DEM/NDVI data.• Proposed a novel augmentation method to solve the class imbalance problem. RoboMasters Competition Sep 2016 - Aug 2017 <i>Leader of computer vision team</i>	

- Developing an embedded vision program on robot. This program could recognize target automatically through the camera on the robot and calculate the spatial coordinate of the target to help the robot aim at it.
- Result: Our team was ranked 4th in this competition which contains 234 competing teams and 7000 players from worldwide universities