

Xueyan Zou

CONTACT	Email: xueyanzoucs@gmail.com	Github: https://github.com/MaureenZOU
RESEARCH INTERESTS	Network Robustness, Video Analysis, Instance Segmentation	
PROGRAMMING SKILLS	Python, Cuda, C, PyTorch, MxNet, Caffe, Tensorflow	
EDUCATION	University of California, Davis PhD Student	Davis, USA 2018 Fall - Present
	Hong Kong Baptist University (HKBU) B.Sc. School of Computer Science. (First Class Honour)	Hong Kong 2015 Fall - 2018 Winter
	Carnegie Mellon University (CMU) Exchange Student, Electrical & Computer Eng.	Pittsburgh, USA 2017 Summer
	McGill University (McGill) Exchange Student, School of Computer Science.	Montreal, CA 2016 Fall
	Hong Kong Baptist University (HKBU) B.Bus. School of Business.	Hong Kong 2013 Fall - 2015 Fall
PUBLICATIONS	Xueyan Zou , Fanyi Xiao, Zhiding Yu, Yong Jae Lee, "Delving deeper into network anti-aliasing in ConvNets" (<i>ICML 2020, submitted</i>) , 2020.	
HONORS & AWARDS	• First Class Prize, ASC17 (Ranked 4/230 teams on Traffic Prediction globally)	2017
	Asia Supercomputer Community Student Supercomputer Challenge	
	• HKBU Overseas Research Scholarship for CMU (1/109)	2017 Summer
	• Liu Hao Tsing Scholarship Fund (1/1700)	2016
	• McGill University Student Exchange Scholarship (2/109)	2016 Fall
RESEARCH EXPERIENCE	• HKBU Computer Science Outstanding Student Scholarship (5%)	2015 Spring
	• HKBU Computer Science Outstanding Student Scholarship (5%)	2015 Fall
	University of California, Davis Research Assistant (Supervisor: Prof. Yong Jae Lee. Mentor: Fanyi Xiao)	Davis, USA Sept 2018 - Now.
	• Research Project: Delving deeper into network anti-aliasing in ConvNets	
	• Introduce a pixel-channel adaptive anti-aliasing module for convolutional neural network which benefits especially for pixel classification tasks.	
INTERESTS	• Introduce an evaluation metric for shift-invariance (consistency) on instance segmentation.	
	• Surpass strong baselines on various tasks: Deeplab v3+, resnet101, PASCAL VOC (+1.8), Mask R-CNN, resnet101, COCO (+1.1/1.3 mask/box), ResNet-101, imagenet (+0.54)	
	TuSimple, Inc Research Intern (Supervisor: Naiyan Wnag, Yuanqin Lu)	Beijing, China Mar 2018 - June 2018.
	• Research Project: Depth Completion	
	• Wrote a cuda layer for Spatial Propagation Network in MxNet	
	• Extend Spatial Propagation Network to depth completion with mean rmse 1.253 on KITTI depth completion benchmark.	
	Carnegie Mellon University Summer Intern (Supervisor: Prof. Vijayakumar Bhagavatula. Mentor: Zhiding Yu)	Pittsburgh, USA June 2017 - Sept 2017
	• Research Project: A Single Network Towards Both Unsupervised Style Transfer and Object Transfiguration	
	• Introduce a multi-objective architecture that enables various types of translations without hand-tuning of network architectures, loss types, and loss weights.	
	• Introduce a learning phase called "identity pre-train", which helps to stabilize training on difficult object transfiguration tasks, while shows nice properties in various tasks.	
INTERESTS	Novel Writing (700,000 clicking rate on Baidu Community), water color painting and piano, (one more for cooking delicious traditional Chinese Food :)	