

# SIMING FAN

Personal Page([simon3dv.github.io](https://simon3dv.github.io))

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## EDUCATION

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**University of Electronic Science and Technology of China(UESTC)** *08.2017 - Present*  
bachelor in Informational and Computing Science(Direction of Computer Science) Sichuan,China  
School of Mathematical Sciences Weighted Average Mark: 88.13(rank 4/37)

## RESEARCH

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**LIDAR/RGB-LIDAR 3D Object Detection** *11.2018 - 11.2019*

Research on raw-point based method(frustum-pointnets, frustum-convnet and PointRCNN), instead of BEV-based and voxel-based method. Besides, research on embedding RGB information into point cloud feature(PointFusion, DenseFusion, PointPainting, ImVoteNet). Use Kitti 3D Object Detection Benchmark for evaluation.

First, reproduce PointNet in Pytorch, including pre-processing and visualization, which are not open-source.([Blog](#))

Second, first person to reproduce frustum-pointnets in Pytorch(not include RGB Detector), 10+ stars now.([simon3dv/frustum-pointnets-pytorch](https://simon3dv/frustum-pointnets-pytorch))

Third, reproduce DenseFusion in frustum-convnet, improving accuracy from 85 to 86 in Kitti validation dataset(caronly, Moderate).( [simon3dv/frustum-convnet](https://simon3dv/frustum-convnet) )

**LIDAR Unsupervised Domain Adaptive 3D Object Detection** *11.2019 - Present*

Supervised by Professor [Mao Ye](#). In 2020.03, I created a domain adaptation dataset via existing dataset(Kitti to nuScenes). Now I am Using frustum-convnet and PointRCNN as baseline, and trying adversarial-based and reconstruction-base method. Part of my code is in [simon3dv/frustum-pointnets-pytorch](https://simon3dv/frustum-pointnets-pytorch) while others are private for the time being.

## TECHNICAL STRENGTHS

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<b>C</b>	3-year
<b>Python</b>	2-year
<b>Pytorch</b>	1-year
<b>Matlab</b>	1-year
<b>Ubuntu</b>	2-year
<b>English</b>	CET6 excellent(565)

## EXTRA-CIRRICULAR

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Third Prize in 2019 UESTC Mathematical Modeling Contest

Third Prize in 2018 UESTC Programming Contest Final

Third Prize in 2019 UESTC ACM Contest

## SCHOLARSHIP

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Excellent Student Scholarship(10% of the participants)