

YIRAN XU

817 Canyon Ridge Rd., Blacksburg, VA 24060

◇ Tel: +1 858-214-8773 ◇ Email: yiranx@vt.edu ◇ Homepage: <https://twizwei.github.io/>

EDUCATION BACKGROUND

Ph.D. in Computer Engineering Virginia Tech, Blacksburg, VA, USA	Aug. 2020 - Present GPA: 4.00/4.00
M.S. in Electrical and Computer Engineering University of California, San Diego, CA, USA	Sept. 2018 - June. 2020 GPA: 3.75/4.00
B.E. in Electrical Engineering South China University of Technology (SCUT), Guangzhou, China	Sept. 2014 - Jun. 2018 GPA: 3.81/4.00

PUBLICATIONS

Yiran Xu, Xiaoyin Yang, Lihang Gong, Hsuan-chu Lin, Tz-ying Wu, Yunsheng Li, Nuno Vasconcelos.
Explainable Object-induced Action Decision for Autonomous Vehicles, CVPR 2020.

RESEARCH EXPERIENCES

Research Assistant , Virginia Tech, VA, USA GAN Inversion for Videos (ongoing) Advisor: Jia-Bin Huang	Sept. 2020 - Present
<ul style="list-style-type: none">• Reconstructed videos by reconstructing foreground and background respectively.• Edited the foreground object in the videos.	
Research Assistant , UC San Diego, CA, USA Monocular 3D Object Detection with Radar Data (ongoing) Advisor: Nuno Vasconcelos	May. 2020 - Present
<ul style="list-style-type: none">• Implemented Deep3DBox as a baseline for 3D object detection on KITTI.• Embedded Radar data from NuScenes as correction to mitigate the ambiguity in monocular 3D detection.	
Research Assistant , UC San Diego, CA, USA Explainable Action Decision in Self-Driving Advisor: Nuno Vasconcelos	Mar. 2019 - Nov. 2019
<ul style="list-style-type: none">• Collected data from different Self-Driving datasets and annotated them with action and explanation. Proposed a new Self-Driving task and new dataset BDD-OIA.• Proposed an object-centric network for action decision and explanation.• Accepted as a CVPR2020 paper.	

PROFESSIONAL EXPERIENCE

Snap Research , Los Angeles, CA, U.S.A Research Intern	May 2021 - Aug. 2021 (expected)
Eaton Corporation , Shenzhen, China Hardware Intern	July 2018 - Jan. 2019

TEACHING EXPERIENCE

Teaching Assistant, ECE 6524/CS 6524 Deep Learning	Aug. 2020 - Dec. 2020
Teaching Assistant, ECE 276A Sensing & Estimation in Robotics	Jan. 2020 - March 2020

TECHNICAL SKILLS

Programming: Python, C/C++, MATLAB

Software & Tools: OpenCV, Linux, Rhinoceros, L^AT_EX, Kubernetes.

Deep Learning Frameworks: Pytorch, Tensorflow