

Chong Zhou

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RESEARCH INTERESTS	I am broadly interested in machine learning, computer vision, and natural language processing. Currently, my research experience is focused on object detection, pedestrian detection, instance segmentation, and audio-visual representation learning.	
EDUCATION	University of North Carolina Chapel Hill , NC, USA Ph.D. student, Computer Science University of California Davis , CA, USA M.S., Computer Science, 2020 GPA: 4.00/4.00 <ul style="list-style-type: none">Advisor: Prof. Yong Jae Lee Nankai University , Tianjin, China B.E., Software Engineering, 2014 GPA: Overall 3.66/4.00; Major 3.72/4.00 <ul style="list-style-type: none">Advisor: Prof. Ming-ming Cheng	
PUBLICATIONS	<ul style="list-style-type: none">[1] Daniel Bolya, Chong Zhou, Fanyi Xiao, and Yong Jae Lee. YOLACT: Real-time instance segmentation. In <i>The IEEE International Conference on Computer Vision (ICCV)</i>, October 2019. (Oral presentation).[2] Daniel Bolya*, Chong Zhou*, Fanyi Xiao, and Yong Jae Lee (* equal contribution). YOLACT++: Better real-time instance segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)</i>, 2020.[3] Penghao Zhou, Chong Zhou, Pai Peng, and Xiaowei Guo. NON-NMS: Improving pedestrian detection by nearby objects hallucination. In <i>Proceedings of the 28th ACM International Conference on Multimedia (ACM Multimedia)</i>, 2020.	
AWARDS	<ul style="list-style-type: none">Most Innovative Award, COCO Object Detection Challenge, 2019Graduate Research Assistantship, UC Davis, 2019National University Student Innovation Program Grant (\$3100), 2016‘Gongneng’ Scholarship (15%), NKU, 2015 and 2016	
EXPERIENCE	University of California Davis , CA, USA <i>Graduate Student Researcher</i> Dec 2018 - Mar 2020 <ul style="list-style-type: none">Propose a simple, fully-convolutional model for <i>real-time</i> instance segmentation that achieves 29.8 mAP on MS COCO at 33 fps evaluated on a single Titan XP, which is significantly faster than any previous competitive approach. [ICCV 2019]Boost the performance of our real-time instance segmenter to 34.1 mAP on MS COCO while keeping it running at 33 fps. [TPAMI 2020] Tencent Youtu Lab , Shanghai, China <i>Research Intern</i> Apr 2020 - Present <ul style="list-style-type: none">Scenes in the pedestrian detection task are more crowded than those in generic object detection. However, traditional NMS does not consider pedestrian density. Thus, we improve the NMS algorithm by making it aware of the nearby pedestrians, which significantly boosts the detection performance. [ACM MM 2020]	
SKILLS	<ul style="list-style-type: none">Programming: Python, C/C++, JavaMisc: PyTorch, LINUX, L^AT_EX	