

Zhishuai ZHANG

zhang@zhishuai.xyz <https://zhishuai.xyz>
100 Mayfield Avenue, Mountain View, CA 94043 [WFH in MD]

EDUCATION

Aug 2016 - Aug 2020 To confer in Dec 2020	Johns Hopkins University , Baltimore Ph.D. in Computer Science Advisor: Dr. Alan Yuille
Sep 2012 - Jun 2016	University of Science and Technology of China , Hefei B.E. in Computer Science Graduate with Honor, Rank: 1 st /102

WORK EXPERIENCE

Sep 2020 - Present	Software Engineer, Waymo LLC , Mountain View Working on pedestrian understanding in perception semantics team.
May 2019 - Dec 2019	Software Engineering Intern, Waymo LLC , Mountain View Working on point cloud based pedestrian detection, trajectory prediction and attention in perception semantics team.
Aug 2016 - Aug 2020 Feb 2016 - May 2016	Research Assistant, Johns Hopkins University , Baltimore Doing research on object detection, occluded object detection, part based model, adversarial attack and defense.
Jun 2018 - Aug 2018	Research Intern, Facebook Inc. , Menlo Park Working on personalization, advertisements ranking and recommendation in core machine learning personalization team.
Jul 2015 - Oct 2015	Research Intern, Yitu Tech , Shanghai Working on mid-level image pattern discovering and visualizing in deep networks.

PUBLICATION

Zhishuai Zhang, Jiyang Gao, Junhua Mao, Yukai Liu, Dragomir Anguelov, Congcong Li, **STINet: Spatio-Temporal-Interactive Network for Pedestrian Detection and Trajectory Prediction**, Conference on Computer Vision and Pattern Recognition (CVPR) 2020

Zhishuai Zhang, Wei Shen, Siyuan Qiao, Yan Wang, Bo Wang, Alan Yuille, **Robust Face Detection via Learning Small Faces on Hard Images**, Winter Conference on Applications of Computer Vision (WACV) 2020

Adam Kortylewski, Qing Liu, Huiyu Wang, **Zhishuai Zhang**, Alan Yuille, **Compositional Convolutional Networks For Robust Object Classification under Occlusion**, Winter Conference on Applications of Computer Vision (WACV) 2020

Yingwei Li, Song Bai, Yuyin Zhou, Cihang Xie, **Zhishuai Zhang**, Alan Yuille, **Learning Transferable Adversarial Examples via Ghost Networks**, AAAI Conference on Artificial Intelligence (AAAI) 2020

Zhishuai Zhang, Yuyin Zhou, Wei Shen, Elliot Fishman, Alan Yuille, **Lesion Detection by Efficiently Bridging 3D Context**, International Workshop on Machine Learning in Medical Imaging (MLMI) 2019

Cihang Xie, **Zhishuai Zhang**, Yuyin Zhou, Song Bai, Jianyu Wang, Zhou Ren, Alan Yuille, **Improving Transferability of Adversarial Examples with Input Diversity**, Conference on Computer Vision and Pattern Recognition (CVPR) 2019

Siyuan Qiao, Wei Shen, **Zhishuai Zhang**, Bo Wang, Alan Yuille, **Deep Co-Training for Semi-Supervised Image Recognition**, European Conference on Computer Vision (ECCV) 2018

Siyuan Qiao, **Zhishuai Zhang**, Wei Shen, Bo Wang, Alan Yuille, **Gradually Updated Neural Networks for Large-Scale Image Recognition**, International Conference on Machine Learning (ICML) 2018

Zhishuai Zhang, Siyuan Qiao, Cihang Xie, Wei Shen, Bo Wang, Alan Yuille, **Single-Shot Object Detection with Enriched Semantics**, Conference on Computer Vision and Pattern Recognition (CVPR) 2018

Zhishuai Zhang*, Cihang Xie*, Jianyu Wang*, Lingxi Xie, Alan Yuille (*equal contribution), **DeepVoting: An Explainable Framework for Semantic Part Detection under Partial Occlusion**, Conference on Computer Vision and Pattern Recognition (CVPR) 2018

Cihang Xie, Jianyu Wang, **Zhishuai Zhang**, Zhou Ren, Alan Yuille, **Mitigating adversarial effects through randomization**, International Conference on Learning Representations (ICLR) 2018

Cihang Xie*, Jianyu Wang*, **Zhishuai Zhang***, Yuyin Zhou, Lingxi Xie, Alan Yuille (*equal contribution), **Adversarial Examples for Semantic Segmentation and Object Detection**, International Conference on Computer Vision (ICCV) 2017

Jianyu Wang*, Cihang Xie*, **Zhishuai Zhang***, Jun Zhu, Lingxi Xie, Alan Yuille (*equal contribution), **Detecting Semantic Parts on Partially Occluded Objects**, British Machine Vision Conference (BMVC) 2017

Jianyu Wang, **Zhishuai Zhang**, Cihang Xie, Vittal Premachandran, Alan Yuille, **Unsupervised learning of object semantic parts from internal states of CNNs by population encoding**, arXiv

PROFESSIONAL ACTIVITY

Reviewer for: **ECCV, ICCV, ACCV, CVPR, AAAI, NeurIPS, ICML, WACV, ICLR, TIP, TBIOM, TCYB, TCSVT, TPAMI, Neuralcomputing, IJCV, TIFS**

Second place at **NIPS 2017: Defense Against Adversarial Attack** at Kaggle

HONOR & AWARD

- 2016 Guo Moruo Scholarship, by University of Science and Technology of China
- 2015 CSC-IBM Scholarship, by International Business Machine and China Scholarship Council
- 2014 National Scholarship, by Ministry of Education of the People's Republic of China
- 2013 Xingye Responsibility Scholarship, by Aegon-Industrial Fund Management Co.,Ltd

TECHNICAL SKILL

Algorithm, Data Structure, C/C++, Python, MATLAB, Linux, L^AT_EX