

# Zhishuai ZHANG

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147 Krieger Hall, 3400 N Charles St., Baltimore, MD 21218

## EDUCATION

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Aug 2016 - Dec 2020 (Expected)	<b>Johns Hopkins University</b> , Baltimore Ph.D. Candidate in Computer Science   Advisor: Dr. Alan Yuille
Sep 2012 - Jun 2016	<b>University of Science and Technology of China</b> , Hefei B.E. in Computer Science   Graduate with Honor, Rank: 1 <sup>st</sup> /102

## WORK EXPERIENCE

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

## PUBLICATION

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**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

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Invited conference reviewer: **ECCV, ICCV, CVPR, AAAI, NeurIPS, ICML, WACV**

Invited journal reviewer: **TCYB, TCSVT, TPAMI, Neuralcomputing, IJCV**

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

## HONOR & AWARD

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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

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Algorithm, Data Structure, C/C++, Python, MATLAB, Linux,  $\text{\LaTeX}$

Updated on June 12, 2020.