

# Zhishuai ZHANG

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## EDUCATION

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2016 - Current	<b>Johns Hopkins University</b> , Baltimore Ph.D. student in Computer Science   Advisor: Dr. Alan Yuille
2016 - 2016	<b>Johns Hopkins University</b> , Baltimore Visiting Undergraduate   Host: Dr. Alan Yuille
2012 - 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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Jun 2018 - Aug 2018	<b>Research Intern, Facebook Inc.</b>
Aug 2016 - Current Feb 2016 - May 2016	<b>Research Assistant, Johns Hopkins University</b> Doing research on object detection, occluded object detection, part based model, adversarial attack and defense.
Jul 2015 - Oct 2015	<b>Intern at Yitu, Shanghai, China</b> Working on mid-level image pattern discovering and visualizing in deep networks.

## PUBLICATION

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Cihang Xie, **Zhishuai Zhang**, Jianyu Wang, Yuyin Zhou, Zhou Ren, Alan Yuille, **Improving Transferability of Adversarial Examples with Input Diversity**, arXiv

Siyuan Qiao, Wei Shen, **Zhishuai Zhang**, Bo Wang, Alan Yuille, **Deep Co-Training for Semi-Supervised Image Recognition**, arXiv

**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

Siyuan Qiao, **Zhishuai Zhang**, Wei Shen, Bo Wang, Alan Yuille, **Gradually Updated Neural Networks for Large-Scale Image Recognition**, arXiv

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

Jianyu Wang, **Zhishuai Zhang**, Cihang Xie, Yuyin Zhou, Vittal Premachandran, Jun Zhu, Lingxi Xie, Alan Yuille, **Visual Concepts and Compositional Voting**, Annals of Mathematical Sciences and Applications 2017

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

Sub-reviewer for **AAAI Conference on Artificial Intelligence (AAAI) 2017**

## HONOR & AWARD

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- 2015 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, L<sup>A</sup>T<sub>E</sub>X