

# Yingwei Li

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## CONTACT INFORMATION

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Baltimore, Maryland 21218, USA <http://yingwei.li>

## RESEARCH INTERESTS

My research interests mainly lay in computer vision. Currently I am working on adversarial attack and defense [1,4,5,6,7], medical image processing [1,2,3], and neural architecture search. I am always open to new topics.

## EDUCATION

**Johns Hopkins University** 2018 - present  
Ph.D. in Department of Computer Science  
Advisor: Alan Yuille

**Johns Hopkins University** Summer 2017  
Visiting Student  
Host: Alan Yuille

**National Taiwan University** Spring 2017  
Exchange Student in Computer Science  
GPA: 4.0

**Fudan University** 2014 - 2018  
B.S. in Computer Science, *Honor Class*

## EXPERIENCE

**ByteDance AI Lab**, Palo Alto, CA Summer 2019  
Research Intern  
Working on neural architecture search and lightweight deep learning model.  
Mentors: Xiaojie Jin, Xiaochen Lian, Linjie Yang

**Johns Hopkins University**, Baltimore, MD 2018 - present  
Research Assistant  
Doing research on medical image processing, adversarial attack and defense.

**TuSimple**, Beijing, China Summer 2016  
Research Intern  
Working on multiple object tracking.  
Mentor: Naiyan Wang

## PUBLICATIONS

[1] **Yingwei Li\***, Zhuotun Zhu\*, Yuyin Zhou, Yingda Xia, Wei Shen, Elliot K. Fishman, and Alan L. Yuille. 2019. Volumetric Medical Image Segmentation: A 3D Deep Coarse-to-fine Framework and Its Adversarial Examples. In *Deep Learning and Convolutional Neural Networks for Medical Image Computing*, Advances in Computer Vision and Pattern Recognition, Springer, ISBN 978-3-030-13968-1.

[2] Yuyin Zhou, **Yingwei Li**, Zhishuai Zhang, Yan Wang, Angtian Wang, Elliot K. Fishman, Alan Yuille, Seyoun Park. 2019. Hyper-Pairing Network for Multi-Phase Pancreatic Ductal Adenocarcinoma Segmentation. In *Proceedings of the International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)*. Springer, Shenzhen, China.

- [3] Yuyin Zhou, David Dreizin, **Yingwei Li**, Zhishuai Zhang, Yan Wang, Alan Yuille. 2019. Multi-Scale Attentional Network for Multi-Focal Segmentation of Active Bleed after Pelvic Fractures. In *Proceedings of 10th International Workshop on Machine Learning in Medical Imaging (MLMI)*. Springer, Shenzhen, China.
- [4] Ziqi Zhang, Xinge Zhu, **Yingwei Li**, Yao Guo, Xiangqun Chen, Dahua Lin. 2019. Adversarial Attacks on Monocular Depth Estimation. *In submission*.
- [5] **Yingwei Li**, Song Bai, Cihang Xie, Zhenyu Liao, Xiaohui Shen, Alan Yuille. 2019. Regional Homogeneity: Towards Learning Transferable Universal Adversarial Perturbations Against Defenses. *CoRR*, *abs/1904.00979*.
- [6] **Yingwei Li**, Song Bai, Yuyin Zhou, Cihang Xie, Zhishuai Zhang, Alan Yuille. 2019. Learning Transferable Adversarial Examples via Ghost Networks. *Conference on Computer Vision and Pattern Recognition Workshop (CVPRW)*. **(Oral)**
- [7] Song Bai, **Yingwei Li**, Yuyin Zhou, Qizhu Li, Philip H.S. Torr. 2019. Adversarial Metric Attack for Person Re-identification. *CoRR*, *abs/1901.10650*.

AWARDS	First Prize Scholarship from Fudan University Education Development Foundation	2017
	SCSK Scholarship	2016
	Second Prize, Shanghai College Student Mathematical Contest in Modeling	2015
	Silver Medal, ACM-ICPC Shanghai Regional Contest	2014
	Bronze Medal, China National Olympiad in Informatics	2013
MISCELLANEOUS	Programming Languages: Python, Matlab, C/C++, L <sup>A</sup> T <sub>E</sub> X	
	Deep Learning Tools: Tensorflow, PyTorch	