

Yingwei Li

CONTACT INFORMATION

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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 [8,9]. 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 undergraduate student
Host: Alan Yuille

National Taiwan University Spring 2017
Exchange student in Computer Science and Information Engineering
GPA: 4.0

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

EXPERIENCE

ByteDance AI Lab, Palo Alto, CA Summer & fall 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 2019)*. 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 2019)*. 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](https://arxiv.org/abs/1904.00979).
- [6] **Yingwei Li**, Song Bai, Yuyin Zhou, Cihang Xie, Zhishuai Zhang, Alan Yuille. 2020. Learning Transferable Adversarial Examples via Ghost Networks. In proceedings of *The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI 2020)*. AAAI Press, New York, USA.
- [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](https://arxiv.org/abs/1901.10650).
- [8] **Yingwei Li**, Xiaojie Jin, Jieru Mei, Xiaochen Lian, Linjie Yang, Cihang Xie, Qihang Yu, Yuyin Zhou, Song Bai, Alan Yuille. 2019. Lightweight Self-Attention Module: Manual Design and Auto-Search. In *submission*.
- [9] Jieru Mei, **Yingwei Li**, Xiaochen Lian, Xiaojie Jin, Linjie Yang, Alan Yuille, Jianchao Yang. 2020. AtomNAS: Fine-Grained End-to-End Neural Architecture Search. In Proceeding of *International Conference on Learning Representations (ICLR 2020)*.

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 ^A T _E X
	Deep Learning Tools: Tensorflow, PyTorch