Yang Zhang

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Orlando, FL 32826

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Google Scholar

Education

Apr. 2020 **Doctor of Philosophy** in Computer Science
Dec. 2016 **Master of Science** in Computer Science
University of Central Florida, U.S.
Advisor: Dr. Hassan Foroosh & Dr. Boqing Gong
July 2013 **Bachelor of Engineering** in Communication Engineering
Chongqing University of Posts and Telecommunications, China

Research Experience

Current / Oct. 2019 **Research Scientist**
Alibaba at Seattle
I make navigation easier using deep learning and computer vision.

Jan. 2019 / Feb. 2018 **Research Intern**
Tencent A.I. Lab at Seattle
I researched transferring learning in deep reinforcement learning.

Aug. 2017 / May 2017 **Research Intern**
Siemens Healthineers USA
I researched medical image segmentation.

Dec. 2016 / Aug. 2016 **Journeyman Research Fellow**
United States Army Research Laboratory
I researched domain adaptation for semantic segmentation.

Aug. 2019 / May 2014 **Research Assistant**
University of Central Florida
I studied deep learning, transfer learning and computer vision.

Publications

* equal contribution

Yang Zhang*, Zixiang Zhou*, Philip David, Xiangyu Yue, Zerong Xi, Hassan Foroosh

PolarNet: An Improved Grid Representation for Online LiDAR Point Clouds Semantic Segmentation
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- ArXiv , Code -

Xiangyu Yue, **Yang Zhang**, Sicheng Zhao, Alberto S.-V., Kurt Keutzer, Boqing Gong

Domain Randomization and Pyramid Consistency:
Simulation-to-Real Generalization without Accessing Target Domain Data
International Conference on Computer Vision (ICCV), 2019
- ArXiv -

Yang Zhang, Philip David, Hassan Foroosh, Boqing Gong
A Curriculum Domain Adaptation Approach to the Semantic Segmentation of Urban Scenes
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- ArXiv , PDF -

Yang Zhang, Hassan Foroosh, Philip David, Boqing Gong
CAMOU: Learning Physical Vehicle Camouflages to Adversarially Attack Detectors in the Wild
International Conference on Learning Representations (ICLR), 2019
- PDF -

Yang Zhang, Philip David, Boqing Gong
Curriculum Domain Adaptation for Semantic Segmentation of Urban Scenes
International Conference on Computer Vision (ICCV), 2017
- PDF , Code -

Yang Zhang, Boqing Gong, Mubarak Shah
Fast Zero-Shot Image Tagging
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016
- PDF , Supp , Code , Video -

Yang Zhang, Rupam Acharyya, Ji Liu, Boqing Gong
Infinite-Label Learning with Semantic Output Codes
ArXiv preprint arXiv:1608.06608 (2016)
- PDF -

Zhezhi He, **Yang Zhang**, Shaahin Angizi, Boqing Gong, Deliang Fan
Exploring A SOT-MRAM based In-Memory Computing for Data Processing
IEEE Transactions on Multi-Scale Computing Systems
- PDF -

Scholarships and Awards

2019 UCF Doctoral Research Support Award
ICLR travel award
2012 China Mobile Scholarship
CQUPT Innovation and Technology Scholarships
2011 CQUPT Innovation and Technology Scholarships

Academic Service

Program Committee Reviewer
ACM Multimedia 2019
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
IEEE Transactions on Multimedia
IEEE Transactions on Intelligent Transportation Systems
International Conference on Computer Vision (ICCV)
International Conference on Computer Vision and Pattern Recognition (CVPR)
International Conference on Machine Learning (ICML)
IEEE Winter Conf. on Applications of Computer Vision (WACV)
2018 Transferring and Adapting Source Knowledge in Computer Vision Workshop
2018 IEEE International Conference on Big Data
Pattern Recognition
Neurocomputing

Talk

Oct. 2015 **Identity Assurance Using Biometrics for Cybersecurity**
Florida Center for Cybersecurity 2015 Annual Conference

Skills

Deep learning: Pytorch; Tensorflow; Theano; Keras.
Programming: Python; C++; MATLAB.