Yang Zhang

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EDUCATION

CURRENT	**Doctor of Philosophy** 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
	Thesis: "Image Enhancement using Lateral Inhibition and Compass Operator"
	Thesis Advisor: Dr. Shaosheng DAI

RESEARCH EXPERIENCE

CURRENT
MAY 2014

Research Assistant

UNIVERSITY OF CENTRAL FLORIDA

Zero-shot Image Tagging (CVPR'16): Developed a deep learning model which ranks labels that are unseen during training for query images by exploring word vector analogy in an embedding space.
Face Anti-Spoofing: Developed an online continuous face authentication system utilizing a graph network containing LSTM and CNN to detect face-spoofing attacks by unauthorized users during video access requests.
TRECVID SIN 2014 Competition: Participated Semantic Indexing (SIN) challenge which aims to detect and classify concepts in given long untrimmed real-world videos according to near 20k real-world training videos.

JAN. 2019
FEB. 2018

Research Intern

TENCENT A.I. LAB USA

Developing policy generalization, or so called zero-shot transferring learning, in deep reinforcement learning.

AUG. 2017
MAY 2017

Summer Research Intern

SIEMENS HEALTHINEERS USA

Developed image segmentation for both veins and implants in X-ray images using semantic segmentation neural network; Developed medical findings detection using tagging neural network;

DEC. 2016
AUG. 2016

Journeyman Research Fellow

UNITED STATES ARMY RESEARCH LABORATORY

Domain Adaptation for Semantic Segmentation (ICCV'17): Developed a set of data-driven supervision to transfer arbitrary segmentation CNN trained on synthetic data to real data.

PUBLICATIONS

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	ACM MULTIMEDIA 2019
Reviewer	IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE (TPAMI)
	IEEE TRANSACTIONS ON MULTIMEDIA
	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS
	2019 INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV)
	2019 INTERNATIONAL CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)
	2018 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:	Theano; Tensorflow; Keras; Pytorch.
Programming:	Python; MATLAB; C++.