

# 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**    **Research Assistant**  
**MAY 2014**    **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**    **Research Intern**  
**FEB. 2018**    **TENCENT A.I. LAB USA**  
Developing policy generalization, or so called zero-shot transferring learning, in deep reinforcement learning.

**AUG. 2017**    **Summer Research Intern**  
**MAY 2017**    **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**    **Journeyman Research Fellow**  
**AUG. 2016**    **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**  
Hassan Foroosh  
Philip David  
Boqing Gong

CAMOU: LEARNING PHYSICAL VEHICLE CAMOUFLAGES TO  
ADVERSARIALY 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

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SEPT. 2012 China Mobile Scholarship  
SEPT. 2012 CQPT Innovation and Technology Scholarships  
SEPT. 2011 CQPT Innovation and Technology Scholarships

## ACADEMIC SERVICE

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Reviewer 2019 INTERNATIONAL CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION  
2018 IEEE WINTER CONF. ON APPLICATIONS OF COMPUTER VISION  
2018 TRANSFERRING AND ADAPTING SOURCE KNOWLEDGE IN COMPUTER VISION WORKSHOP  
2018 IEEE INTERNATIONAL CONFERENCE ON BIG DATA  
PATTERN RECOGNITION  
NEUROCOMPUTING  
IEEE TRANSACTIONS ON MULTIMEDIA

## TALK

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OCT. 2015 IDENTITY ASSURANCE USING BIOMETRICS FOR CYBERSECURITY  
Florida Center for Cybersecurity 2015 Annual Conference

## SKILLS

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Deep learning: Theano; Tensorflow; Keras; Pytorch.  
Programming: Python; MATLAB; C.  
Other: Distributed computing (DoD HPC & UCF cluster); Large dataset learning (100M images).