

Yang ZHANG

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EDUCATION

- CURRENT** | **Doctor of Philosophy** in COMPUTER SCIENCE
University of Central Florida, U.S.
Advisor: 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 | **CENTER FOR RESEARCH IN COMPUTER VISION, 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.
- 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

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|---|---|
| Yang ZHANG
Philip DAVID
Boqing GONG | CURRICULUM DOMAIN ADAPTATION FOR SEMANTIC SEGMENTATION OF URBAN SCENES
<i>International Conference on Computer Vision (ICCV), 2017</i>
- PDF , Code - |
| Yang ZHANG
Boqing GONG
Mubarak SHAH | FAST ZERO-SHOT IMAGE TAGGING
<i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016</i>
- PDF , Supp , Code , Video - |
| Yang ZHANG
Rupam ACHARYYA
Ji LIU
Boqing GONG | INFINITE-LABEL LEARNING WITH SEMANTIC OUTPUT CODES
<i>ArXiv preprint arXiv:1608.06608 (2016)</i>
- PDF - |

SCHOLARSHIPS AND AWARDS

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

ACADEMIC SERVICE

Reviewer 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.
Other: Distributed computing (DoD HPC & UCF cluster); Large dataset learning (100M images).