

Yang Zhang

HEC Bldg, Room 245
4328 Scorpius Street,
Orlando, FL 32816

yangzhang4065@gmail.com
(321)-444-1730
<https://yangzhang4065.github.io/>

RESEARCH BACKGROUND AND INTEREST

- Multi-domain machine learning tasks, especially those on the intersection of computer vision and natural language processing.
- Feedforward and graph neural network.

EDUCATION

Ph.D. in Computer Science, University of Central Florida. Expected 2018
Overall GPA: 3.9
Advisor: Boqing Gong

B.E. in Communication Engineering, Chongqing University of Posts and Telecommunications. 2013
Thesis Title: Image Enhancement using Lateral Inhibition and Compass Operator. Advisor: Shaosheng Dai

RESEARCH EXPERIENCE

Journeyman Research Fellow, United States Army Research Laboratory 8/2016 - 12/2016

- Domain Adaptation for Semantic Segmentation

Research Assistant, Center for Research in Computer Vision, University of Central Florida 5/2014 - Present

- 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.

SKILLS

- Intensively use MATLAB and Python on both Linux and Windows on a daily basis.
- Deep learning and optimization using Theano, Tensorflow, Caffe and Keras.
- Distributed machine learning using cluster ranging from lab system to DoD HPC
- Experienced in solving conventional CV tasks using contemporary tools including VLFeat, LibSVM, Caffe etc.

SELECTED COURSES

Scored A in Computational Methods for Data Analysis (Convex Optimization); Machine learning; Knowledge Representation; Advanced Computer Vision; Design & Analysis of Algorithm; Bioinformatics Algorithm.

PUBLICATION

Yang Zhang, Boqing Gong, Mubarak Shah. "Fast Zero-Shot Image Tagging." *IEEE Conference on Computer Vision and Pattern Recognition*, 2016

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

Yang Zhang, Philip David, Boqing Gong. "Curriculum Domain Adaptation for Semantic Segmentation of Urban Scenes." Submitted to *International Conference on Computer Vision* 2017

TALK

"Identity Assurance Using Biometrics for Cybersecurity"
-Florida Center for Cybersecurity 2015 Annual Conference

AWARDS

China Mobile Enterprise Scholarship
CQUPT Excellent Student Award

CQUPT Innovation and Technology Scholarships, twice
CQUPT Advanced Individual of Technology and Innovation