

Yufeng Zhang

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EDUCATION

Columbia University

New York, NY

Master of Science in Computer Science, Machine Learning Track

Expected Dec 2018

Shanghai Jiao Tong University

Shanghai, CN

Bachelor of Engineering, School of Electronic Information and Electrical Engineering

Sep 2013 – Jun 2017

GuangHua Educational Scholarship, Top 3 out of 80 in Dept. of Automation

2016

Meritorious Winner, Mathematical Contest in Modeling (MCM)

2015

TECHNICAL SKILLS

- Programming: C/C++, Python, HTML;
- Tools: Django, Caffe, TensorFlow, MXNet, OpenCV, LabVIEW, Photoshop, LaTeX

INTERNSHIPS

Intel Asia Pacific R&D Center, Software and Services Group (SSG)

Shanghai, CN

Software Engineer Intern, Machine Learning and Translations Team

Oct 2016 – Apr 2017

- Developed a system by C++ enabling manipulators to automatically grasp items based on 3D vision feedback and deep learning methods
- Collected and processed large scale datasets of images and actions using Python
- Implemented Super-Resolution Images Generation through convolution neural networks by Caffe

Yixiao Information Technology Co., Ltd

Shanghai, CN

Software Engineer Intern, Department of Technology

Apr 2017 – July 2017

- Developed a SaaS Business Process Management tool using Django, acted as a lead of 5-people team
- Built up test suites for backend and database of the web application using Python

SELECTED PROJECTS

Key Laboratory of Shanghai Education Commission for Intelligent Interaction and Cognitive Engineering Shanghai, CN

Video-based Dynamic Gesture Recognition

May 2016 - Nov 2016

- Developed a real-time dynamic gesture recognition system based on modified YOLO and discrete-HMM
- Proposed and implemented a workflow by Python to artificially generate datasets by synthesizing target objects with background images

Scene Classification

Jul 2016 - Sep 2016

- Implemented and trained a fusion-feature network based on Inception-V3 by MXNet to classify scenes with accuracy 87.4% (2.4% higher than baseline)
- Led a team of three to compete in IMAGENET Large Scale Visual Recognition Challenge 2016 (ILSVRC 2016)

MOE Key Laboratory of System Control and Information Processing

Shanghai, CN

Design and Implementation of Intelligent Library Management Robot

Mar 2015 - May 2016

- Designed and developed the system of library manage robot with C++ which can automatically find and grasp books
- Led to three Chinese National Invention Patents

RESEARCH

- Publication: Zhiqin Chen, Yufeng Zhang, et al. **Real-time tag recognition based on morphology and local contrast.** In *IEEE International Conference on Real-time Computing and Robotics (RCAR)*, 2016