

# YA-FANG SHIH

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EDUCATION	<b>M.S. Computer Science - National Taiwan University</b> (Overall GPA: 4.16/4.3) 2016 - 2017 <b>B.S. Computer Science - National Taiwan University</b> (Last 60 GPA: 4.01/4.3) 2011 - 2015
RESEARCH INTEREST	Computer Vision, Deep Learning
PUBLICATION	<b>Deep Co-occurrence Feature Learning for Visual Object Recognition</b> <u>Ya-Fang Shih*</u> , Yang-Ming Yeh* (* indicates equal contribution), Yen-Yu Lin, Ming-Fang Weng, Yi-Chang Lu, Yung-Yu Chuang IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017
AWARD	<b>Excellent Master Thesis Award</b> Image Processing and Pattern Recognition Society <b>Outstanding Students Conference Travel Grant</b> Foundation for the Advancement of Outstanding Scholarship
EXPERIENCE	<b>Teaching Assistant - Computer Science, National Taiwan University</b> 2017 CSIE 7694 Digital Visual Effects (Spring 2017) <b>Research Assistant - Academia Sinica</b> 2015 - 2017 <b>Invited Talk - Viscovery Computer Vision &amp; Machine Learning Paper Sharing Meetup</b> 2017 Deep Co-occurrence Feature Learning for Visual Object Recognition
PROJECT	<b>Stereo Panorama (C++)</b> website: yafangshih.github.io/stereo-pano 2016 Built a system that produces stereo panorama image pairs (for left and right eyes) from a handheld GoPro video. Implemented omnistereo method and an optical flow-based image blending method. <b>Outfit Color Harmony Evaluation System (C++)</b> 2016 Applied color harmonization algorithm to develop an outfit evaluation system. The resulting system scores how harmonic the colors of people's outfit looks. <b>Distorted Movie Scene Image Classification (MATLAB, MatConvNet)</b> 2015 Improved the CNN classification accuracy of movie scene photos taken by users which have heavy lightning and contrast distortion. <b>Image Feature Matching Android Application (C++, Java, Android NDK)</b> 2015 Developed an application that takes photos and matches feature points instantly on mobile devices using native language and integrated it into the Java environment on Android platform. <b>DJ Board (C, Arduino)</b> website: silviachyou.github.io/DJBoard 2015 Developed an interactive skateboard on Arduino platform. The resulting system receives inputs of user's body motion from multiple sensors to trigger different types of music effects.
SKILL	Languages: C/C++, MATLAB, CUDA, python Tools: TensorFlow, MatConvNet, OpenCV, OpenMP, Android SDK/NDK
REFERENCE	Yung-Yu Chuang - Professor, National Taiwan University cyy@csie.ntu.edu.tw Yen-Yu Lin - Associate Research Fellow, Academia Sinica yylin@citi.sinica.edu.tw