

# YA-FANG SHIH

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EDUCATION    **M.S. Computer Science - National Taiwan University** (Overall GPA: 4.16/4.3)    2016 - 2017  
                 **B.S. Computer Science - National Taiwan University** (Last 60 GPA: 4.01/4.3)    2011 - 2015

RESEARCH  
INTEREST    Computer Vision, Deep Learning

PUBLICATION    **Deep Co-occurrence Feature Learning for Visual Object Recognition**  
                 Ya-Fang Shih\*, 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    **Excellent Master Thesis Award**  
                 Image Processing and Pattern Recognition Society  
                 **Outstanding Students Conference Travel Grant**  
                 Foundation for the Advancement of Outstanding Scholarship

EXPERIENCE    **Teaching Assistant - Computer Science, National Taiwan University**    2017  
                 CSIE 7694 Digital Visual Effects (Spring 2017)  
                 **Research Assistant - Academia Sinica**    2015 - 2017  
                 **Invited Talk - Viscovery Computer Vision & Machine Learning Paper**    2017  
                 **Sharing Meetup**  
                 Deep Co-occurrence Feature Learning for Visual Object Recognition

PROJECT    **Stereo Panorama (C++)** 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.  
                 **Outfit Color Harmony Evaluation System (C++)**    2016  
                 Applied color harmonization algorithm to develop an outfit evaluation system.  
                 The resulting system scores how harmonic the colors of people's outfit looks.  
                 **Distorted Movie Scene Image Classification (MATLAB, MatConvNet)**    2015  
                 Improved the CNN classification accuracy of movie scene photos taken by users  
                 which have heavy lightning and contrast distortion.  
                 **Image Feature Matching Android Application (C++, Java, Android NDK)**    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.  
                 **DJ Board (C, Arduino)** 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: 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