

YA-FANG SHIH

Email: yfshih.tw@gmail.com
Phone: (+886) 910 163 286
Website: yafangshih.github.io

EDUCATION	M.S. Computer Science - National Taiwan University (Overall GPA: 4.16/4.3) Courses: Digital Image Processing / GPU Programming / Digital Visual Effects / Computer Graphics / Human-Computer Interaction B.S. Computer Science - National Taiwan University (Last 60 GPA: 4.01/4.3)	02/2016 - 06/2017 09/2011 - 06/2015
EXPERIENCE	Research Assistant - Academia Sinica, Taiwan Teaching Assistant - Dept. Computer Science, National Taiwan University CSIE 7694 Digital Visual Effects (Spring 2017)	2015 - 2017 2017- 2017
PUBLICATION	Deep Co-occurrence Feature Learning for Visual Object Recognition <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	Excellent Master Thesis Award A thesis award from The Chinese Image Processing and Pattern Recognition Society Viscovery Scholarship A scholarship won by popular vote upon presentation during the Viscovery Research Seminar on Computer Vision and Deep Learning Outstanding Students Conference Travel Grant A travel grant from the Foundation for the Advancement of Outstanding Scholarship	2017 2017 2017
PROJECT	Medical Image Segmentation with Adversarial Synthesized data (TensorFlow, python) - Applied generative adversarial networks to translate between unpaired CT and MRI medical images. - Improved brain image segmentation results by fusing the synthesized data from two domains. Stereo Panorama (C++) Website: yafangshih.github.io/stereo-pano - Produced 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. Color Harmony Evaluation System for Outfit (C++) - Implemented color harmonization algorithm to develop an image evaluation system. - The resulting system scored how harmonic the colors of people's outfit looked. Improved Classification for Distorted Images (MATLAB, MatConvNet) - This work focused on improving the CNN classification accuracy of scene photos taken by users which had heavy lightning and contrast distortion. Image Feature Matching Android Application (C++, Java, Android NDK) - Developed an application that took photos and matched 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 - Developed an interactive skateboard on Arduino platform. - The resulting system received inputs of user's body motion from multiple sensors to trigger different types of music effects.	2017 2016 2016 2016 2015 2015
SKILL	Languages: C/C++, python, MATLAB, CUDA Tools: TensorFlow, MatConvNet, OpenCV, OpenMP	
REFERENCE	Yung-Yu Chuang, Professor, National Taiwan University Yen-Yu Lin, Associate Research Fellow, Academia Sinica	cyy@csie.ntu.edu.tw yylin@citi.sinica.edu.tw