

EDUCATION

National Taiwan University 國立臺灣大學

Computer Science and Information Engineering (CSIE) 資訊工程學系

Master Candidate (latest semester GPA: 4.20)

Feb. 2016 - present

Bachelor of Science (GPA: 3.67)

Sep. 2011 - Jun. 2015

IELTS: 7.5

WORK EXPERIENCE

Research Assistant 研究助理

Feb. 2015 - present

Academia Sinica 中央研究院

Conducted experiments for paper publication, read academic papers and made weekly research report.

PROJECT EXPERIENCE

Stereo Panorama 2016

A program that produces stereo panorama image pairs from a hand-held GoPro video.

Applied Omnistereo method to extract stereo strips and a flow-based method for image blending.

Project page: <https://yafangshih.github.io/stereo-pano/>

CNN for Exploring Object Part Relationship 2016

A CNN that explores the relationship between object parts from activation maps to improve the performance of fine-grained recognition. Developed with MatConvNet.

Deep Learning Image Classification System 2015

A system that classifies user-specified images which have heavy lightning and contrast distortion.

Applied methods that boosted accuracy with 26%. Trained with over 85,000 datas.

Image Feature Matching Android App 2015

An Android app that takes photos, detects and matches robust feature points in pictures instantly on mobile devices.

Programmed in C++ and Java. Developed with Android NDK and OpenCV4Android.

DJ Board 2015

A skateboard with Arduino that receives inputs of the user's body motion to trigger different types of music effects.

Developed with an infrared sensor, pressure and ultrasonic sensors and a gyroscope on Arduino.

Project page: <http://silviachyou.github.io/DJBoard/>

SKILL

Language: C, MATLAB, CUDA, python, assembly

Programming: OpenCV, parallel programming

Android Development: Android SDK, NDK, OpenCV4Android

Operating System: Linux, Mac OS X, Windows

EXTRACURRICULAR ACTIVITY

Volunteer at World Vision Taiwan

NTU Photography Club

TA of NTU Service Learning