

CHUN-JUNG (AMY) CHIEN

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EDUCATION

Texas A&M University, College Station, Texas Aug 2020
Master of Science in Computer Science and Engineering

National Taiwan University (NTU), Taipei, Taiwan Jun 2017
Master of Science in Computer Science (Institute of Networking and Multimedia)
GPA 3.97 out of 4.3

National Tsing-Hua University (NTHU), Hsinchu, Taiwan Jun 2015
Bachelor of Science in Computer Science
GPA 4.05 out of 4.3 (Top 10% in graduation class); Two times winner of the Academic Achievement Award

TECHNICAL SKILLS

- Programming languages: C/C++, Python, MATLAB, C#, JAVA, JavaScript, PLSQL, PHP.
- Interest Areas: Image Processing, Computer Vision.

RELEVANT EXPERIENCE

Graduate Research Assistant Sep 2015 – Jun 2017

Graduate Institute of Networking and Multimedia, NTU, Taipei, Taiwan

- Researched on depth estimation in single image based on monocular cues.
- Implemented vanishing points detection, image segmentation, relative depth cues extraction, and depth ordering according to the relationship between segments in MATLAB.
 - Improved accuracy of adjacent segment pairs to 92% higher than state-of-the-art method.
- Used flash and non-flashed images to automatically rectify distorted photographed documents, including registration, specular removal, image enhancement, and perspective geometric correction in C++.
 - Presented the research results and won Best Paper Award at the 29th Chinese Image Processing and Pattern Recognition Society (IPPR) Conference.

Graduate Course Projects Sep 2015 – Jun 2017

Graduate Institute of Networking and Multimedia, NTU, Taipei, Taiwan

- **Clothes Recorded System:** Utilized clothes parsing method with self-defined color and texture feature to classify different types of clothes in MATLAB.
- **Computer Generated Artistic Paintings:** Automatically turned real photos into three types of painting based on their original characteristics in MATLAB with GUI.
- **Object Classification:** Used CaffeNet as the pre-trained model, trained a new network through Caffe to do 10-way object classification task with provided dataset, and gained a 97.5% accuracy on testing dataset. Also provided Python Command-Line Interface tool.

Undergraduate Research Assistant Mar 2014 – Nov 2014

Department of Computer Science, NTHU, Hsinchu, Taiwan

- Developed a “Smart Cage” Android mobile application to enable the remote owner-pet interaction.
- Used the microcontroller board – Arduino Yún to successfully connect an infrared sensor, motor, and camera.
- Built a user interface with java for an Android operating system.

WORK EXPERIENCE

Computer Integrated Manufacturing (CIM) Engineer Nov 2017 – Jul 2018

Taiwan Semiconductor Manufacturing Company (TSMC), Hsinchu, Taiwan

- Created C# GUI data verifier for auto authentication of user applied data.
- Calculated multiple scoring indices of tools with other departments in PLSQL procedure.
- Maintained ranking rules with Scheduler and Dispatching team to ensure the wafers run in good tools with higher yield.
- Reduced human resource costs for manual data verification and improved 5% total yields in the new fab.

Teaching Assistant for Digital Image Processing Mar 2016 – Jun 2016

Department of Computer Science and Information Engineering, NTU, Taipei, Taiwan

- Designed and graded assignments, projects, and midterms and prepared lecture materials.
- Provided office hours (2 hours per week) to assist students in coding and the concepts of image processing.