

# Shih-Han Chou | CV

+886 932632088 • shchou75@gmail.com

## Education

### Academic Qualifications

- **National Tsing Hua University** **Hsinchu, Taiwan**  
*Electrical Engineering, Master student in ACS (automatic control and signal) Lab* 2014–2017  
GPA: 4.1/4.3
- **RWTH AACHEN University** **Aachen, Germany**  
*Electrical Engineering, An exchange student for one semester.* 2016–2017
- **National Sun Yat-Sen University** **Kaohsiung, Taiwan**  
*Mechanical and Electromechanical Engineering,* 2011–2014  
GPA: 3.8/4.0 (overall); 3.8/4.0 (major); 3.9/4.0 (last-60)  
Rank: Top 7.4% (4th/54)
- **National Changhua University of Education** **Changhua, Taiwan**  
*Mechatronics Engineering,* 2010–2011  
Transfer to National Sun Yet-Sen University at September 2011.

### Publications

#### Conference

- Anonymous, "Towards Automatic Show-and-Tell in 360° videos", ECCV'18 (under review)
- **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Hou-Ning Hu, Jainlong Fu, Min Sun, "Self-view Grounding Given a Narrated 360° Video", AAAI'18
- Kuo-Hao Zeng, **Shih-Han Chou**, Fu-Hsiang Chan, Juan Carlos Niebles, Min Sun, "Agent-Centric Risk Assessment: Accident Anticipation and Risky Region Localization", CVPR'17, **spotlight**.

#### Workshop

- **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Hou-Ning Hu, Jainlong Fu, Min Sun, "Self-view Grounding Given a Narrated 360° Video", ICCV'17 - Workshop on Closing the Loop Between Vision and Language, **spotlight**.

#### Master Thesis

- **Shih-Han Chou**, Wei-Yu Chen, Bor-Sen Chen, "Multiobjective Design for Joint Precoding and Equalization of MIMO OFDM Systems with simultaneous post-detection SINR Maximization and Power Consumption Minimization". Master thesis (under submission)

### Research Experience

- **Vision Science Lab**  
360° Video grounding, storytelling (2017 - 2018)  
Accident anticipation (2017)
- **Automatic Control and Signal Lab**  
Robust control and  $H_\infty$  control in wireless communication (2014 - 2017)
- **Bio-Medical Micro Electro Mechanical Systems Lab**  
The correlation between Heart Rate Variability and Apnea-Hypopnea Index is BMI dependent (2014)  
The relation between vertical ground reaction force and heart rate during treadmill running (2013 - 2014)

### Notable Projects

- **Computer Vision for Visual Effects** Term Project  
Our project page: <https://sites.google.com/site/computervisionvisualeffectsg11/home>

- **Image Processing** *Final Project*

## Honors and Awards

---

- **NSYSU Undergraduate Outstanding Reports of Special Project (2013)**

Topic: Estimating the relation between vertical ground reaction force and heart rate with different exercising strength during treadmill running.

## Previous Employment

---

- **Intern** **Taipei, Taiwan**  
*Appier* *April 2018–Present*
- **Research Assistant** **Hsinchu, Taiwan**  
*Vision Science Lab (National Tsing Hua University)* *June 2017–March 2018*
- **MediaTek Summer Intern** **Hsinchu, Taiwan**  
*MediaTek Inc.* *July 2014–August 2014*
- **HIWIN Summer Intern** **Taichung, Taiwan**  
*HIWIN Technologies Corp.* *July 2013–August 2013*
- **Receptionist in The 43th International Symposium on Robotics** **Taipei, Taiwan**  
*International Symposium on Robotics* *28, August 2012–30, August 2012*

## Technical and Personal skills

---

- **Programming Languages:**  
C (Intermediate), C++ (Intermediate), Python (Proficient), Matlab (Proficient),  $\LaTeX$ (Proficient)
- **Machine (Deep) Learning Platform:**  
PyTorch (Proficient), Caffe (Intermediate), SciPy (Intermediate), OpenCV (Proficient), LIBSVM (Intermediate)