Shih-Han Chou

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Graduate student on electrical engineer.
Passionate about natural language processing, computer vision, robotics and artificial intelligence.

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 Yet-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

○ **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Ho-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, Ho-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.*

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 - present)
Accident anticipation (2017)

○ **Automatic Control and Signal Lab**

Robust control and H∞ 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*

  https://sites.google.com/site/computervisionvisualeffectsg11/home

- **Image Processing** *Final Project*

  GUI for Image processing and Image Compression implementation.

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

- **Research Assistant** **Hsinchu, Taiwan**
  Vision Science Lab (National Tsing Hua University) *June 2017–present*

- **MediaTek Summer Intern** **Hsinchu, Taiwan**
  MediaTek *July 2014–August 2014*

- **HIWIN Summer Intern** **Taichung, Taiwan**
  HIWIN *July 2013–August 2013*

- **Receptionist in The 43th International Symposium on Robotics** **Taipei, Taiwan**
  International Symposium on Robotics *28, August 2012–30, August 2012*

- **HIWIN Summer Intern** **Taichung, Taiwan**
  HIWIN *July 2012–August 2012*

Technical and Personal skills

- **Programming Languages:** C, C++, Python, Matlab, LaTeX

- **Machine (Deep) Learning Platform:** PyTorch, Caffe, SciPy, OpenCV, LIBSVM

Interests

- Computer Vision + Machine Learning
- Computer Vision + Natural Language
- Computer Vision + Robotics