Shih-Han Chou | CV

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Inquire for the Ph.D. position in 2019 fall.

Education

Academic Qualifications

National Tsing Hua University — **Hsinchu, Taiwan**
Electrical Engineering, Master student in ACS (automatic control and signal) Lab — *09/2014–06/2017*
GPA: 4.1/4.3

RWTH AACHEN University — **Aachen, Germany**
Electrical Engineering, An exchange student for one semester. — *10/2016–03/2017*

National Sun Yat-Sen University — **Kaohsiung, Taiwan**
Mechanical and Electromechanical Engineering, — *09/2011–06/2014*
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, — *09/2010–06/2011*
Transfer to National Sun Yet-Sen University at September 2011.

Publications

Conference

- **Shih-Han Chou**, Wei-Lun Chao, Wei-Sheng Lai, Min Sun, Ming-Hsuan Yang, *"Visual Question Answering on 360° Images".*, *CVPR19' submitted*
- **Shih-Han Chou**, Cheng Sun, Wen-Yen Chang, Wan-Ting Hsu, Min Sun, Jainlong Fu, *"COCO-360°: Towards Learning Real-World Object Detectors in 360° Equirectangular Images".*, *CVPR19' submitted*
- **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Hou-Ning Hu, Jainlong Fu, Min Sun, *"Self-view Grounding Given a Narrated 360° Video".*, *AAAI18'*
- Kuo-Hao Zeng, **Shih-Han Chou**, Fu-Hsiang Chan, Juan Carlos Niebles, Min Sun, *"Agent-Centric Risk Assessment: Accident Anticipation and Risky Region Localization".*, *CVPR17'*, **spotlight**.

Workshop

- **Shih-Han Chou**, Yi-Chun Chen, Cheng Sun, Kuo-Hao Zeng, Ching-Ju Cheng, Jainlong Fu, Min Sun, *"Towards 360° Show-and-Tell".*, *ECCV18' - Workshop on 360° Perception And Interaction*
- **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Hou-Ning Hu, Jainlong Fu, Min Sun, *"Self-view Grounding Given a Narrated 360° Video".*, *ICCV17' - 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*

Research Experience

- **Vision and Learning Lab** *Advisor: Prof. Ming-Hsuan Yang*
  Visual Question Answering (2018 - present)
- **Vision Science Lab** *Advisor: Prof. Min Sun*
  360° Object detection (2018 - present)
  360° Video grounding, show and tell (2017 - 2018)

Accident anticipation (2017)
- o **Automatic Control and Signal Lab**
  Robust control and H∞ control in wireless communication (2014 - 2017)
- o **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

- o **Computer Vision for Visual Effects** *Term Project*
  Our project page: `https://sites.google.com/site/computervisionvisualeffectsg11/home`
- o **Image Processing** *Final Project*

Honors and Awards

- o **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

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