# Shih-Han Chou | CV

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#### Education

#### Academic Qualifications.

University of British ColumbiaVancouver, CanadaComputer Science, PhD student in Computer Vision Lab09/2019-current

National Tsing Hua University

Electrical Engineering, Master student in ACS (automatic control and signal) Lab GPA: 4.1/4.3

**RWTH AACHEN University** 

Electrical Engineering, An exchange student for one semester.

National Sun Yat-Sen University

Mechanical and Electromechanical Engineering, 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

Mechatronics Engineering, Transfer to National Sun Yet-Sen University at September 2011.

**Kaohsiung, Taiwan** 09/2011–06/2014

Hsinchu, Taiwan

Aachen, Germany

10/2016-03/2017

09/2014-06/2017

**Changhua, Taiwan** 09/2010–06/2011

#### Publications.....

#### Conference

- **Shih-Han Chou**, Wei-Lun Chao, Wei-Sheng Lai, Min Sun, Ming-Hsuan Yang, "Paper title omitted for double-blind reviews"., under submission.
- **Shih-Han Chou**, Cheng Sun, Wen-Yen Chang, Wan-Ting Hsu, Min Sun, Jainlong Fu, "360-Indoor: Towards Learning Real-World Objects in 360° Indoor Equirectangular Images"., WACV20'.
- 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'.
- o 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
- o **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....

- Computer Vision Lab Advisor: Prof. Leonid Sigal
   Visual Commonsense Reasoning, Visual Question Answering (2019 current)
- **Vision and Learning Lab** *Advisor: Prof. Ming-Hsuan Yang* Visual Question Answering (2018 2019)

• Vision Science Lab Advisor: Prof. Min Sun

360° Object detection (2018 - 2019)

360° Video grounding, show and tell (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....

o Computer Vision for Visual Effects Term Project

Our project page: https://sites.google.com/site/computervisionvisualeffectsg11/home

Image Processing Final Project

# **Honors and Awards**

o Scholarships for Excellent Students to Study Abroad from Ministry of Education Taiwan (2016)

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**

Research Assistant  Vision Science Lab (National Tsing Hua University)	Hsinchu, Taiwan August 2018–January 2019
• Intern • Appier	<b>Taipei, Taiwan</b> April 2018–July 2018
Research Assistant Vision Science Lab (National Tsing Hua University)	<b>Hsinchu, Taiwan</b> <i>June 2017–March 2018</i>
MediaTek Summer Intern  MediaTek Inc.	<b>Hsinchu, Taiwan</b> <i>July</i> 2014– <i>August</i> 2014
HIWIN Summer Intern  HIWIN Technologies Corp.	<b>Taichung, Taiwan</b> <i>July 2013–August 2013</i>
Receptionist in The 43th International Symposium or	n Robotics Taipei, Taiwan

International Symposium on Robotics

28, August 2012–30, August 2012