Shih-Han Chou | CV

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Education

Academic Qualifications

University of British Columbia — **Vancouver, Canada**
Computer Science, PhD student in Computer Vision Lab — *09/2019–current*

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"., WACV20'.*

- **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'.*

- 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**.

Research Experience

- **Computer Vision Lab** *Advisor: Prof. Leonid Sigal*
  Visual Commonsense Reasoning, Visual Question Answering (2019 - current)

- **5th IVADO/MILA/DSI Deep Learning School** *Teaching Assistant*
  The material includes data & metrics with pyTorch, categorical data with multilayer perceptron, convolutional neural networks, and recurrent neural networks (2019 winter)

- **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)

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

- **Scholarships for Excellent Students to Study Abroad from Ministry of Education Taiwan (2016)**
- **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*)   *August 2018–January 2019*

- **Intern**   **Taipei, Taiwan**
  Appier   *April 2018–July 2018*

- **Research Assistant**   **Hsinchu, Taiwan**
  Vision Science Lab (*National Tsing Hua University*)   *June 2017–March 2018*