

# Hsuan-I Ho

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Phone: +886 963097239 | E-mail: [azuxmioy@gmail.com](mailto:azuxmioy@gmail.com) | Homepage: <https://azuxmioy.github.io/>

## Education

**ETH Zürich, Zürich, Switzerland**

(Sep 2018 – )

*MSc in Computer Science*

- Current weighted GPA 5.66 / 6.00

**National Taiwan University, Taipei, Taiwan**

(Sep 2012 – June 2016)

*B.S. in Electrical Engineering*

- Overall GPA: 4.12/4.30, Major GPA: 4.17/4.30, Ranking: 12/190 (6.3%)

**Tokyo Institute of Technology, Tokyo, Japan**

(Sep 2015 – Mar 2016)

*YSEP (Young Scientist Exchange Program) in Department of Computer Science*

- Academic Record: 91.4/100

## Experience

**Clova AI, NAVER Corp.**

(Sep 2019 – Dec 2019)

*Research Intern*

- Advisor: [Dongyoon Wee](#)
- Human pose tracking and pose-invariant person re-identification

**Vision and Learning Lab, National Taiwan University**

(Mar 2017 – July 2018)

*Research Assistant*

- Advisor: [Prof. Yu-Chiang Frank Wang](#)
- Deep metric learning, domain adaptation and egocentric video summarization.

**Media IC & System Lab, National Taiwan University**

(Mar 2016 – Jan 2017)

*Research Assistant*

- Advisor: [Po-Chen Wu](#), [Prof. Shao-Yi Chien](#)
- Object pose estimation, object pose tracking and augmented reality.
- Proposed new benchmark dataset for evaluating 6DoF object pose tracking.

**Koike Laboratory, Tokyo Institute of Technology**

(Sep 2015 – Mar 2016)

*Exchange Research Program*

- Advisor: [Prof. Hideki Koike](#)
- 3D object-camera modeling, projector camera system and human-computer interface.

## Teaching Experience

**Teaching Assistant, Deep Learning for Computer Vision** [[Link](#)]

(Mar 2018 – June 2018)

**Lecturer, Deep Learning Crash Course for Master Students** [[Link](#)]

(July 2018)

## Technical Skills

Programming: Python, C/C++, MATLAB

Software/Toolkit: TensorFlow, PyTorch, OpenCV, Blender, Qt

## Publications

**Hsuan-I Ho**, Minh Shim, Dongyoon Wee, “Learning from Dances: Pose-invariant Re-identification for Multi-Person Tracking”, in International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2020. [[PDE](#), [Project page](#)]

**Hsuan-I Ho**, Wei-Chen Chiu, Yu-Chiang Frank Wang, “Summarizing First-Person Videos from Third Persons’ Points of Views”, in European Conference on Computer Vision (ECCV), 2018. [[PDE](#), [Project page](#)]

Po-Chen Wu, **Hsuan-I Ho\***, Yueh-Ying Lee\*, Hung-Yu Tseng\*, Ming-Hsuan Yang, and Shao-Yi Chien, "A Benchmark Dataset for 6DoF Object Pose Tracking", in IEEE International Symposium on Mixed and Augmented Reality (ISMAR Adjunct), 2017. (\*- indicate equal contribution) [[PDE](#), [Project page](#)]

## Selected Project

### **Learning pose-aware human representations for conditional person image translation [ [PDE](#) ]**

(Dec 2019 – Jan 2020)

*Deep Learning Course Project, ETH Zurich*

- Proposed Multi-Objective Multi-Identity Network (MOMI-Net) which solved issues of requiring paired training data and auxiliary pose inputs in existing image translation works.

### **SMNNet: Spatial-temporal Multimodal Network for Dynamic Gesture Recognition [ [PDE](#), [Project page](#) ]**

(Mar 2019 – June 2019)

*Machine Perception Course Project, ETH Zurich*

- Developed new framework of end-to-end multimodal action recognition which obtained 91.2% accuracy and ranked second place among 150-people leaderboard.

### **Supe@oad: Road segmentation through multi-objective ensemble and geometric-aware post-processing [ [PDE](#), [Project page](#) ]**

(Mar 2019 – June 2019)

*Computational Intelligence Lab Course Project, ETH Zurich*

- Designed innovated framework integrating deep neural network and graph-based optimization for aerial image segmentation task and ranked second place among 400-people competition.

### **Summarizing First-Person Videos From Third Person's Point of View (Mar 2017 – Mar 2018)**

*Published on ECCV 2018, Vision and Learning Lab [ [PDE](#), [Project page](#) ]*

- Proposed framework for learning first-person video summarization when lacking in annotated first-person training data.
- Combined domain adaptation, deep semi-supervised learning with video summarization.

## Honors

Appier Artificial Intelligence and Information Technology Research Scholarship (2018)

1<sup>st</sup> Prize of MOST Generative Adversarial Networks Project Competition (2017)

3<sup>rd</sup> Prize of 2016 Agrithon (Agricultural Hackathon) in Taiwan (2016)