

# Tzu-Yun Ariel Shann

## Research Assistant



lasirenashann.github.io



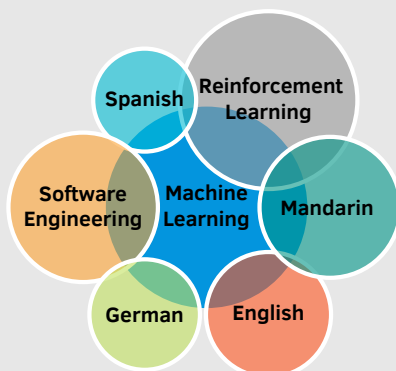
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lasirenashann

## Skills

### Overview



### Programming

0 LOC —————> 5000 LOC

Python

LaTeX

C • C++ • Java

## Coursework

**Machine Learning:** introduction to machine learning theories and techniques. Implemented several ML algorithms, and completed a project to classify images of people based on their age and gender using Keras.

**Introduction to Multimedia:** from traditional signal processing techniques to recent advances in deep learning.

**Parallel Programming**

**Scientific Computing**

**Software Engineering**

## Biography

Hi, my name is **Tzu-Yun**, or you can call me **Ariel**. Currently, I work as a research assistant at **National Tsing Hua University**. I am very lucky to be able to collaborate with **Prof. Chun-Yi Lee** and his research team. My current research focuses on **reinforcement learning** and its applications in other domains (e.g, robotics, computer vision). I will be a master student in Computer Science at **University of British Columbia** in Fall 2018, advised by **Prof. Leonid Sigal**.

I am broadly interested in the following research areas:

- **Reinforcement Learning**
- **Machine Learning**
- **Computer Vision**

## Education

2018 -	<b>MSc., Computer Science</b> Vancouver, BC, Canada	University of British Columbia
2014 - 2017	<b>BSc., Computer Science</b> Hsinchu, Taiwan GPA: 3.96/4.30	National Tsing Hua University
2013 - 2014	<b>Computer Science and Engineering</b> Taichung, Taiwan GPA: 3.82/4.00	National Chung Hsing University

## Publications

**T.-Y. Shann\***, Z.-W. Hong\*, S.-Y. Su\*, Y.-H. Chang, C.-Y. Lee, "**A Deep Policy Inference Q-Network for Multi-Agent Systems**," in *Int. Conf. Autonomous Agents and Multi-Agent Systems (AAMAS)*, July 2018. (\* indicates equal contributions)

Z.-W. Hong, Y.-M. Chen, H.-K. Yang, S.-Y. Su, **T.-Y. Shann**, Y.-H. Chang, B. H.-L. Ho, C.-C. Tu, T.-C. Hsiao, H.-W. Hsiao, S.-P. Lai, Y.-C. Chang, C.-Y. Lee, "**Virtual-to-Real: Learning to Control in Visual Semantic Segmentation**," in *Int. Joint Conf. Artificial Intelligence (IJCAI)*, July 2018.

Z.-W. Hong, **T.-Y. Shann**, S.-Y. Su, Y.-H. Chang, C.-Y. Lee, "**Diversity-Driven Exploration Strategy for Deep Reinforcement Learning**," in *Int. Conf. Learning Representations (ICLR) Workshop*, April 2018

## Experience

2017.1 - 2018.8	<b>Research Assistant</b>	National Tsing Hua University
	<ul style="list-style-type: none"><li>• Advised by Prof. Chun-Yi Lee</li><li>• Currently involved in research on reinforcement learning, imitation learning and computer vision</li></ul>	
2016.7 - 2016.9	<b>Software Engineer Intern</b>	MediaTek Inc.
	<ul style="list-style-type: none"><li>• Internship at the multimedia department</li><li>• Implemented software tools for product testing</li><li>• Performance analysis</li></ul>	
2015.8 - 2015.9	<b>Summer Program Participant</b>	Technical University of Munich
	<ul style="list-style-type: none"><li>• Engineering and Geodesy</li><li>• Built a small navigation robot with Arduino</li><li>• German language courses</li></ul>	