

Curriculum Vitae

Tzu-Yun Shann

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RESEARCH INTERESTS

- **Reinforcement learning**
 - Multi-agent RL
 - Interactive RL
- **Machine Learning**
- **Computer Vision**

EDUCATION

- | | | |
|-----------------|--|---|
| 2014.9 - 2017.6 | Bachelor of Science, Computer Science
<i>National Tsing Hua University, Hsinchu, Taiwan</i> <ul style="list-style-type: none">• Rank: 18/120• GPA: (Overall) 3.96/4.30, (Last 60) 4.17/4.30 |  |
| 2013.9 - 2014.6 | Computer Science and Engineering
<i>National Chung Hsing University, Taichung, Taiwan</i> <ul style="list-style-type: none">• Rank: 1/34• GPA: 3.82/4.00• Transferred to National Tsing Hua University |  |

EXPERIENCE

- | | | |
|------------------|--|---|
| 2017.1 - Present | Research Assistant
<i>National Tsing Hua University, Hsinchu, Taiwan</i> <ul style="list-style-type: none">• Reinforcement learning• Multi-agent setting• Gaming agents• Vision-based autonomous robot• Advised by Prof. Chun-Yi Lee |  |
| 2016.7 - 2016.9 | Software Engineer Intern
<i>MediaTek Inc., Hsinchu, Taiwan</i> <ul style="list-style-type: none">• Product testing• Performance analysis |  |
| 2015.8 - 2015.9 | Summer Program Participant
<i>Technical University of Munich, Germany</i> <ul style="list-style-type: none">• Build a small navigation robot with Arduino• Engineering and Geodesy• German |  |
| 2014.1 - 2014.6 | Director of the Artistic Design Department
<i>Computer Science and Engineering Student Association, National Chung Hsing University, Taichung, Taiwan</i> <ul style="list-style-type: none">• Lay out the grounds for activities• Arrange the decorations | |

PEER-REVIEWED RESEARCH PAPERS

- **T.-Y. Shann***, Z.-W. Hong*, S.-Y. Su*, Y.-S. Chang*, C.-Y. Lee*, “A deep policy inference Q-network for multi-agent systems,” *Int. Conf. Autonomous Agents and Multi-Agent Systems (AAMAS)*, 2018 [[PDF](#)]
- Z.-W. Hong, Y.-M. Chen, H.-K. Yang, T.-C. Hsiao, **T.-Y. Shann**, S.-Y. Su, Y.-S. Chang, and C.-Y. Lee, “Virtual-to-real: Learning to control in visual semantic segmentation,” **submitted to** *Int. Conf. Joint Conf. Artificial Intelligence (IJCAI)*, 2018 [[Demo](#)]

(* indicates equal contribution)

AWARDS

- **Academic Achievement Award**, *National Tsing Hua University*, 2017
Awarded to top 5% students in Dept. of Computer Science
- **Academic Achievement Award**, *National Chung Hsing University*, 2014
Awarded to top 5% students in Dept. of Computer Science and Engineering

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Java, Matlab
- **Deep Learning Frameworks:** Keras, Tensorflow, PyTorch
- **Languages:** Chinese, English, German, Spanish

RELATED COURSEWORK

- | | |
|------------------------|------------------------------|
| • Machine Learning | • Data Structures |
| • Probability | • Introduction to Multimedia |
| • Linear Algebra | • Scientific Computing |
| • Software Engineering | • Parallel Programming |