

## Research Interests: Computer Vision & Machine Learning

### Education

- Sep. 2017 **M.S., Graduate Institute of Communication Engineering (GICE), National Taiwan University (NTU)**, Taipei, Taiwan.  
– Present GPA: 4.3/4.3; Rank: 1st/128
- Aug. 2016 **Non-degree, Computer Science, University of Minnesota (UMN)- Twin Cities**, Minneapolis, MN, USA.  
– Dec. 2016 GPA: 3.7/4.0; Received research assistantship
- Sep. 2013 **B.S., Electrical Engineering & Computer Science, National Tsing Hua University (NTHU)**, HsinChu, Taiwan.  
– Jun. 2016 GPA: 3.84/4.3; Early graduation (3 years)

### Publications

- [1] **Yu-Jhe Li\***, Hsin-Yu Chang\*, Yu-Jing Lin, Po-Wei Wu, and Yu-Chiang Frank Wang. **Deep Reinforcement Learning for Playing 2.5D Fighting Games** IEEE International Conference on Image Processing. 2018. (ICIP'18).
- [2] **Yu-Jhe Li**, Fu-En Yang, Yen-Cheng Liu, Yu-Ying Yeh, Xiao-Fei Du, and Yu-Chiang Frank Wang. **Adaptation and Re-Identification Network: An Unsupervised Deep Transfer Learning Approach to Person Re-Identification**. IEEE Conference on Computer Vision and Pattern Recognition. Workshop 2018 (CVPR'18 Workshop).
- [3] Yun-Chun Chen, **Yu-Jhe Li**, Aragorn Tseng, and Tsungnan Lin. **Deep Learning for Malicious Flow Detection**. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications. 2017 (PIMRC'17).

### Experiences

#### Research Experiences

- Sep. 2017 **Graduate Research Assistant, Vision & Learning Lab, GICE, NTU**. Taipei, Taiwan.  
– Present Research topics: Transfer Learning, Domain Adaptation, Person Re-identification.
- Feb. 2017 **Undergraduate Research Assistant, Mobile & Network Lab, GICE, NTU**. Taipei, Taiwan.  
– Jun. 2017 Research topics: Feature Engineering, Cyber Security, Machine Learning.
- Oct. 2016 **Undergraduate Research Assistant, Institute for Health Informatics, UMN**. MN, USA.  
– Jan. 2017 Research topics: Bioinformatics, Machine Learning
- Summer 2015 **Research Trainee, Dept. Computer Science, Fudan University**, Shanghai, China.

Research topics: Graph and Walk Algorithm, Data Mining

## Work Experiences

- Winter 2018 **Internship**, *Dragon Cloud AI Inc.*, San Francisco, CA, USA.  
o Built IoT devices for *Deep learning* oriented, and applied Amazon Aws API and related tools.
- Summer 2017 **Internship**, *R&D, Trend Micro Inc.*, Taipei, Taiwan.  
o Applied static analysis on malicious self-extracting samples using *Machine learning* without decompressing the files.

## Teach Experiences

- Fall 2017 **Teaching Assistant**, Course <Introduction to Programming>, Dept. Electrical Engineering, NTU. Taipei, Taiwan.
- Spring 2018 **Teaching Assistant**, Course <Deep Learning for Computer Vision>, Dept. Electrical Engineering, NTU. Taipei, Taiwan.

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## Selected Projects

- Sep. 2017 **Adversarial Attack for Malware**, Dept. Computer Science & Information Engineering,  
- Feb. 2018 *National Taiwan University*, Taipei, Taiwan.  
o Utilized Reinforcement Learning and Generative Adversarial Network for attacking the antivirus software. Supervised by Prof. Shou-De Lin.
- Summer 2014 **Software Development**, Dept. Computer Science, *TsingHua University*, Beijing, China.  
o Developed online basic messaging software (**in one person**), and implemented necessary functions for multiple users using Java.

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## Skills

### Computer

Software PYTHON, JAVA, C++/C, MATLAB,  $\text{\LaTeX}$ , R, CLOJURE, LISP  
Toolkit TENSORFLOW, PYTORCH, MXNET, KERAS

### Languages

Chinese **Mothertongue**

English **Intermediate**

*Fluent in communicative and academic aspect*

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## Honors

- 2018 **Paper award**, *CVGIP 2018*, Tainan, Taiwan.
- 2018 **Second place**, *Nvidia GTC 2018 research poster competition*, Taipei, Taiwan.
- 2016 **Scholarship**, *Exchange program in University of Minnesota-Twin Cities*, Minneapolis, MN, U.S.A.
- 2014 **Scholarship**, *Training program in Tsinghua University*, Beijing, China.

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## Extracurricular Activities

- Sep. 2016 **Student Association Member**, *IEEE (Institute of Electrical and Electronics Engineers)*  
- Jan. 2017 *Student Branch in University of Minnesota*, MN, USA.
- Sep. 2015 **Athletic Chair**, *Student Association of EECS in National Tsing Hua University*, Hsin-Chu,  
- Jun. 2016 Taiwan.