

# Yu-Jhe Li

## Curriculum Vitae

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### Research Interests

**Computer Vision, Machine Learning, and Deep Learning**, Particularly Transfer Learning, Representation Learning, and Reinforcement Learning.

### Education

- Sep. 2017 **M.S., Graduate Institute of Communication Engineering (GICE)**, National Taiwan University (NTU), Taipei, Taiwan.  
– Feb. 2019  
GPA: 4.3/4.3; Rank: 1st/128
- Aug. 2016 **Non-degree, Computer Science (CS)**, 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 (EECS)**, National Tsing Hua University (NTHU), HsinChu, Taiwan.  
– Jun. 2016  
GPA: 3.84/4.3; Early graduation (3 years)

### Publications

- **Yu-Jhe Li**, Yun-Chun Chen, Yen-Yu Lin, XiaoFei Du, and Yu-Chiang Frank Wang. **Anonymous Title (Double blind)**. IEEE International Conference on Computer Vision. 2019. ([ICCV'19 under review](#)).
- Yen-Ting Liu, **Yu-Jhe Li**, Fu-En Yang, Shang-Fu Chen, and Yu-Chiang Frank Wang. **Learning Hierarchical Self-Attention for Video Summarization** IEEE International Conference on Image Processing. 2019. ([ICIP'19 under review](#)).
- Wen-Hsuan Chu, **Yu-Jhe Li**, Jing-Cheng Chang, and Yu-Chiang Frank Wang. **Spot and Learn: A Maximum-Entropy Image Patch Sampler for Few-Shot Classification**. IEEE Conference on Computer Vision and Pattern Recognition. Jan 2019. ([CVPR'19](#)).
- Yan-Bo Lin, **Yu-Jhe Li**, and Yu-Chiang Frank Wang. **Dual-modality Seq2seq Network for Audio-Visual Event Localization**. IEEE International Conference on Acoustics, Speech, and Signal Processing. May 2019. ([ICASSP'19](#)).
- **Yu-Jhe Li**\*, Yun-Chun Chen\*, XiaoFei Du, and Yu-Chiang Frank Wang. **Learning Resolution-Invariant Deep Representations for Person Re-Identification**. AAAI Conference on Artificial Intelligence. Jan 2019. ([AAAI'19 Oral](#)). (\* indicates equal contribution)
- **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. Oct 2018. ([ICIP'18](#)).
- **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 Workshops. Jun 2018. ([CVPR'18 Workshops](#)).
- 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. Oct 2017 ([PIMRC'17](#)).

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## Research Experiences

- Sep. 2017 **Vision & Learning Lab**, GICE, NTU. Taipei, Taiwan. Research topics: Transfer Learning, – Present Domain Adaptation, Person Re-identification.
- Sep. 2017 **Machine Discovery & Social Network Mining Lab**, CSIE, NTU. Taipei, Taiwan. Research – Jan. 2018 topics: Data mining, Machine Learning.
- Feb. 2017 **Mobile & Network Lab**, GICE, NTU. Taipei, Taiwan. Research topics: Feature Engineering, – Aug. 2017 Cyber Security, Machine Learning.
- Oct. 2016 **Institute for Health Informatics**, UMN. MN, USA. Research topics: Bioinformatics, Machine – Jan. 2017 Learning

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## 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.

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## Teach Experiences

- Spring 2018 **Teaching Assistant**, *Course <Deep Learning for Computer Vision>*, Dept. *Electrical Engineering*, Spring 2019 NTU. Taipei, Taiwan.
- Fall 2017 **Teaching Assistant**, *Course <Introduction to Programming>*, Dept. *Electrical Engineering*, NTU. Taipei, Taiwan.

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## Selected Projects

- Sep. 2017 **Adversarial Attack for Malware**, *TrendMicro. Inc. and Dept. Computer Science & Information* – Feb. 2018 *Engineering, 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

Software PYTHON, JAVA, C++/C, MATLAB, L<sup>A</sup>T<sub>E</sub>X, R, CLOJURE, LISP  
Toolkit TENSORFLOW, PYTORCH, MXNET, KERAS

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## Honors

- Jan. 2019 **Foxconn Technology Research Award**, *Foxconn Technology 2019*, Taipei, Taiwan.
- Dec. 2018 **NTU Academic Outstanding Award**, *National Taiwan University 2018*, Taipei, Taiwan.
- Nov. 2018 **Academic Scholarship**, *Pan Wen Yuan Foundation 2018*, Taipei, Taiwan.
- Nov. 2018 **Academic Award**, *Witty Technology Education Foundation 2018*, Taipei, Taiwan.
- Aug. 2018 **Student Paper Award**, *CVGIP 2018*, Tainan, Taiwan.
- May. 2018 **Second Place**, *Nvidia GTC 2018 research poster competition*, Taipei, Taiwan.
- Jun. 2016 **Scholarship**, *Exchange program in University of Minnesota-Twin Cities*, Minneapolis, MN, U.S.A.