Yu-Jhe Li

Curriculum Vitae

BL-527, No. 1, Sec. 4, Roosevelt Road
Taipei, Taiwan 10617
(+886) 973 400 693
yujhe.jack@gmail.com
yujheli.github.io

Research Interests

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

Education

Sep. 2017 – Feb. 2019 **M.S., Graduate Institute of Communication Engineering (GICE),** *National Taiwan University (NTU)*, Taipei, Taiwan.

GPA: 4.3/4.3; Rank: 1st/128

Aug. 2016 – Dec. 2016 **Non-degree, Computer Science (CS),** *University of Minnesota (UMN)-Twin Cities,* Minneapolis, MN, USA.

GPA: 3.7/4.0; Received research assistantship

Sep. 2013 – Jun. 2016 **B.S., Electrical Engineering & Computer Science (EECS),** *National Tsing Hua University (NTHU),* HsinChu, Taiwan.

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, Yen-Yu Lin, 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**).

Research Experiences

Sep. 2017 – Present **Vision & Learning Lab,** GICE, NTU. Taipei, Taiwan. Research topics: Transfer Learning, Domain Adaptation, Person Re-identification.

Sep. 2017 – Jan. 2018 **Machine Discovery & Social Network Mining Lab,** CSIE, NTU. Taipei, Taiwan. Research topics: Data mining, Machine Learning.

Feb. 2017 – Aug. 2017 **Mobile & Network Lab,** GICE, NTU. Taipei, Taiwan. Research topics: Feature Engineering, Cyber Security, Machine Learning.

Oct. 2016 – Jan. 2017 **Institute for Health Informatics,** UMN. MN, USA. Research topics: Bioinformatics, Machine Learning

Work Experiences

Winter 2018 **Internship,** *Dragon Cloud AI Inc.,* San Francisco, CA, USA.

- 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.

- Applied static analysis on malicious self-extracting samples using *Machine learning* without decompressing the files.

Teach Experiences

Spring 2018 Spring 2019 **Teaching Assistant,** *Course <Deep Learning for Computer Vision>, Dept. Electrical Engineering,* NTU. Taipei, Taiwan.

Fall 2017 **Teaching Assistant,** *Course <Introduction to Programming>, Dept. Electrical Engineering,* NTU. Taipei, Taiwan.

Selected Projects

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

- 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.

- Developed online basic messaging software (**in one person**), and implemented necessary functions for multiple users using Java.

Skills

Software Python, java, C++/C, Matlab, LaTeX, R, Clojure, Lisp

Toolkit TensorFlow, PyTorch, Mxnet, Keras

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 Scholoarship,** *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.