

Yu-Jhe Li

Curriculum Vitae

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Research Interests

Computer Vision, Machine Learning, and Natural Language Processing, 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; In progress
- 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

- [1] **Yu-Jhe Li***, Yun-Chun Chen*, Xiao-Fei Du, and Yu-Chiang Frank Wang. **Learning Resolution-Invariant Deep Representations for Person Re-Identification**. AAAI Conference on Artificial Intelligence. 2019. (**AAAI'19 Oral**). (* indicates equal contribution)
- [2] **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**).
- [3] **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 2018. (**CVPR'18 Workshops**).
- [4] 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**).
- [5] **Yu-Jhe Li**, Yun-Chun Chen, Xiao-Fei Du, and Yu-Chiang Frank Wang. **Anonymous Title (Double blind)**. IEEE Conference on Computer Vision and Pattern Recognition 2019. (**CVPR'19** under review).
- [6] Wen-Hsuan Chu, Jing-Cheng Chang, **Yu-Jhe Li**, and Yu-Chiang Frank Wang. **Anonymous Title (Double blind)**. IEEE Conference on Computer Vision and Pattern Recognition 2019. (**CVPR'19** under review).
- [7] 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. 2019. (**ICASSP'19** under review).

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 topics: Data mining, Machine Learning.
- Jan. 2018
- Feb. 2017 **Mobile & Network Lab**, GICE, NTU. Taipei, Taiwan. Research topics: Feature Engineering, Cyber Security, Machine Learning.
- Aug. 2017
- Oct. 2016 **Institute for Health Informatics**, UMN. MN, USA. Research topics: Bioinformatics, Machine Learning
- Jan. 2017

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.

Selected Projects

- Sep. 2017 **Adversarial Attack for Malware**, Dept. Computer Science & Information 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.
- Feb. 2018
- 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.

Skills

Software PYTHON, JAVA, C++/C, MATLAB, L^AT_EX, R, CLOJURE, LISP
 Toolkit TENSORFLOW, PYTORCH, MXNET, KERAS

Honors

- Dec. 2018 **NTU Outstanding Scholarship**, National Taiwan University 2018, Taipei, Taiwan.
- Nov. 2018 **Scholarship**, Pan Wen Yuan Foundation 2018, Taipei, Taiwan.
- Nov. 2018 **Scholarship**, 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.

Extracurricular Activities

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