

# YU-JHE LI

Homepage: <https://yujheli.github.io/>

Email: yujhe.jack@gmail.com

## RESEARCH INTERESTS

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Computer Vision and Machine Learning.

## EDUCATION

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**National Taiwan University, Taipei, Taiwan**

M.S. in Data Science program of Communication Engineering

*Sep. 2017 - Jan. 2019*

Overall GPA: 4.18/4.3

**National Tsing Hua University, Hsinchu, Taiwan**

B.S. in Electrical Engineering and Computer Science (EECS)

*Sep. 2013 - Jan. 2017*

Overall GPA: 3.84/4.3

Exchange scholar at:

- TsingHua University, Beijing, China in 2014 Summer.
- Fudan University, Shanghai, China in 2015 Summer.
- University of Minnesota, Minneapolis, USA in 2016 Fall.

## PUBLICATIONS

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1. **Yu-Jhe Li**, Ci-Siang Lin, Yan-Bo Lin, and Yu-Chiang Frank Wang. “Cross-Dataset Person Re-Identification via Unsupervised Pose Disentanglement and Adaptation.” *IEEE International Conference on Computer Vision (ICCV)*. Nov 2019.
2. **Yu-Jhe Li\***, Yun-Chun Chen\*, Yen-Yu Lin, Xiaofei Du, and Yu-Chiang Frank Wang. “Recover and Identify: Generative Dual Model for Cross-Resolution Person Re-Identification.” *IEEE International Conference on Computer Vision (ICCV)*. Nov 2019. (\* indicates equal contribution)
3. 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 (ICIP)*. Sep 2019.
4. 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 (CVPR)*. Jun 2019.
5. 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 (ICASSP)*. May 2019.
6. **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 (AAAI)*. Jan 2019. (\* indicates equal contribution)
7. **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 (ICIP)*. Oct 2018.
8. **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 (CVPR) Workshops*. Jun 2018.

9. 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 (PIMRC)*. Oct 2017.

## RESEARCH EXPERIENCE

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**Vision and Learning Lab, National Taiwan University** November 2017 - July 2019  
*Graduate Research Assistant working with Prof. Yu-Chiang Frank Wang Taipei, Taiwan*

- Unsupervised learning and domain adaptation in re-identification
- Cross-resolution adversarial learning in super-resolution and image generation

**Social Network Mining Lab, National Taiwan University** September 2017 - January 2018  
*Graduate Research Assistant working with Prof. Shou-De Lin Taipei, Taiwan*

- Reinforcement learning and adversarial attack in the application of antivirus software.

**Institute for Health Informatics, University of Minnesota** October 2016 - January 2017  
*Undergraduate Research Assistant working with Prof. Chih-Lin Chi Minneapolis, USA*

- Machine learning of genetic features in dementia analysis.

## TEACHING EXPERIENCE

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**Teaching Assistant at National Taiwan University**

- CommE 5052: Deep Learning for Computer Vision *Spring 2019*
- CommE 5052: Deep Learning for Computer Vision *Spring 2018*
- EE 1004: Introduction to Programming *Fall 2017*

## WORK EXPERIENCE

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**Internships**

- Software Engineer at Dragon Cloud AI Inc., Winter 2018. *San Francisco, USA*
- Software Engineer at Trend Micro Inc., Summer 2017. *Taipei, Taiwan*

## TECHNICAL STRENGTH

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**Programming Languages** Python, JAVA, C/C++, MATLAB, R  
**Software & Toolkits** Pytorch, TensorFlow, HTML, LaTeX

## ACADEMIC HONORS

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- **Foxconn Technology Research Award**, *Foxconn Technology 2019.* *Taipei, Taiwan*
- **NTU Academic Outstanding Award**, *National Taiwan University 2018.* *Taipei, Taiwan*
- **Academic Scholarship**, *Pan Wen Yuan Foundation 2018.* *Taipei, Taiwan*
- **Academic Award**, *Witty Technology Education Foundation 2018.* *Taipei, Taiwan*
- **Student Paper Award**, *CVGIP 2018.* *Tainan, Taiwan*
- **Second Place**, *Nvidia GTC 2018 research poster competition.* *Taipei, Taiwan*

## PROFESSIONAL ACTIVITY

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- **Invited Speaker** at The 3rd Augmented Intelligence and Interaction (AII) Workshop. *Jul. 2019*
- **Reviewer** for IEEE International Conference on Computer Vision (ICCV) 2019. *Jun. 2019*
- **Invited Teaching Assistant** at AI summer school in Hsinchu. *Aug. 2018*