

YU-JHE LI

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RESEARCH INTERESTS

Computer Vision and Machine Learning.

EDUCATION

National Taiwan University, Taipei, Taiwan

M.S. in Data Science program of Communication Engineering

Sep. 2017 - Jan. 2019

Major GPA: 4.18/4.3

National Tsing Hua University, Hsinchu, Taiwan

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

Sep. 2013 - Jan. 2017

Major GPA: 4.09/4.3

Exchange scholar at: (all with scholarships)

- Dept. Computer Science, TsingHua University, Beijing, China.

2014 Summer

- Dept. Computer Science, Fudan University, Shanghai, China.

2015 Summer

- Dept. Computer Science, University of Minnesota, Minneapolis, USA.

2016 Fall

RESEARCH EXPERIENCE

The Robotics Institute, Carnegie Mellon University

Research Associate working with Prof. Kris M. Kitani

September 2019 - Current

Pittsburgh, PA, USA

- Built cross-camera tracking model for workers in construction sites using location, motion, and appearance deep features, followed by action recognition.
- Learned clothing color invariant representations via adversarial learning and body structure disentanglement for person re-identification.

Vision and Learning Lab, National Taiwan University

Graduate Research Assistant working with Prof. Yu-Chiang Frank Wang

September 2017 - July 2019

Taipei, Taiwan

- Built novel deep framework for unsupervised learning and domain adaptation in re-identification via unsupervised pose disentanglement.
- Learned resolution-invariant representations for cross-resolution tasks via adversarial learning of super-resolution and image generation.

Institute for Health Informatics, University of Minnesota

Undergraduate Research Assistant working with Prof. Chih-Lin Chi

October 2016 - January 2017

Minneapolis, MN, USA

- Developed machine learning model for statistical genetic disease prediction and analysis.

PUBLICATIONS

Under Review:

- **Yu-Jhe Li**, Xinshuo Wen, Kris M. Kitani. “Learning Clothing Color Invariant Representation for Person Re-identification” (*In submission to CVPR*)
- **Yu-Jhe Li**^{*}, Yun-Chun Chen^{*}, Yen-Yu Lin, and Yu-Chiang Frank Wang. “Cross-Modality Learning for Cross-Resolution Re-Identification.” *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*. (* indicates equal contribution)

Conference Papers:

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.

TEACHING EXPERIENCE

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

Internships

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

ACADEMIC HONORS

- **Best Master Thesis Award**, *TAAI 2019*. *Taipei, Taiwan*
- **Best Master Thesis Award**, *IPPR 2019*. *Taipei, Taiwan*
- **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

- **Reviewer** for CVPR 2020, ECCV 2020. *Dec. 2019*
- **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*