

EDUCATION

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| Johns Hopkins University (JHU) Ph.D. in Electrical and Computer Engineering | Baltimore, MD Aug. 2019 –Present |
| National Chiao Tung University (NCTU) M.S. in Electronics Engineering B.S. in EECS Undergraduate Honors Program | Hsinchu, Taiwan Sep. 2017 –Jun. 2019 Sep. 2013 –Jun. 2017 |
| University of Illinois at Urbana-Champaign (UIUC) Exchange Student in Electrical and Computer Engineering | Champaign, IL Aug. 2016 –Dec. 2016 |

RESEARCH EXPERIENCE

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|---|---|
| Vision and Image Understanding Lab, JHU Research Assistant, with Prof. Vishal M. Patel (Ph.D. advisor) <ul style="list-style-type: none">– Adversarial robustness to multi-perturbation: [1]– Novel adversarial attack: [2] | Baltimore, MD Aug. 2019 –Present |
| Communication Electronics and Signal Processing Lab, NCTU Research Assistant, with Prof. Hsueh-Ming Hang (M.S. advisor) <ul style="list-style-type: none">– Real-time semantic segmentation: [3,6]– Compressed-domain semantic segmentation: [4]– Deep learning-based lane detection: [5,7] | Hsinchu, Taiwan Sep. 2017 –Jun. 2019 |

PUBLICATIONS

- [1] **Shao-Yuan Lo** and Vishal M. Patel. “Defending Against Multiple and Unforeseen Adversarial Videos.” In *arXiv*, 2020.
- [2] **Shao-Yuan Lo** and Vishal M. Patel. “MultAV: Multiplicative Adversarial Videos.” In *arXiv*, 2020.
- [3] **Shao-Yuan Lo**, Hsueh-Ming Hang, Sheng-Wei Chan, and Jing-Jhih Lin. “Efficient Dense Modules of Asymmetric Convolution for Real-Time Semantic Segmentation.” In *ACM International Conference on Multimedia in Asia (MMAsia)*, 2019. [Best Paper Award]
- [4] **Shao-Yuan Lo** and Hsueh-Ming Hang. “Exploring Semantic Segmentation on the DCT Representation.” In *ACM International Conference on Multimedia in Asia (MMAsia)*, 2019. [Oral]
- [5] **Shao-Yuan Lo**, Hsueh-Ming Hang, Sheng-Wei Chan, and Jing-Jhih Lin. “Multi-Class Lane Semantic Segmentation using Efficient Convolutional Networks.” In *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, 2019. [Oral]
- [6] Shang-Wei Hung, **Shao-Yuan Lo**, and Hsueh-Ming Hang. “Incorporating Luminance, Depth and Color Information by a Fusion-based Network for Semantic Segmentation.” In *IEEE International Conference on Image Processing (ICIP)*, 2019. [Oral]
- [7] Ping-Rong Chen*, **Shao-Yuan Lo***, Hsueh-Ming Hang, Sheng-Wei Chan, and Jing-Jhih Lin. “Efficient Road Lane Marking Detection with Deep Learning.” In *IEEE International Conference on Digital Signal Processing (DSP)*, 2018. [Oral]

AWARDS

- **Government Scholarship to Study Abroad**, Ministry of Education, Taiwan 2020
- **Best Paper Award**, ACM MMAsia 2019 2019
- **Best Master Thesis Award**, Chinese Image Processing and Pattern Recognition Society 2019
- **Students' Outstanding Contribution Award** (highest honor of graduation), NCTU 2019
- **Dean's List**, EECS Honors Program, NCTU 2017
- **Scholarship for Outbound Exchange**, NCTU 2016
- **WINTEK Outstanding Freshman Scholarship**, WINTEK Corp. and NCTU 2013

ACADEMIC SERVICES

- **Reviewer:** IEEE Transactions on Systems, Man, and Cybernetics: Systems, Pattern Recognition

LEADERSHIP

- Secretary, JHU Taiwanese Student Association, JHU 2020 –Present
- Secretary, EECS Student Association, EECS Honors Program, NCTU 2015 –2016
- Treasurer, NCTU Chinese Chess Club, NCTU 2014 –2015
- Arts Chair, EECS Summer Camp for High School Students, EECS Honors Program, NCTU 2014 –2015