

TZ-YING (GINA) WU

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EDUCATION

- Ph.D. in Electrical and Computer Engineering** *Sep. 2018 - present*
University of California San Diego (UCSD), USA
Advisor: Prof. Nuno Vasconcelos, GPA: 3.88/4.0
- Master of Science in Electrical Engineering** *Feb. 2016 - Jan. 2018*
National Tsing Hua University (NTHU), Taiwan
Advisor: Prof. Min Sun, GPA: 4.27/4.3
- Bachelor of Science in Electrical Engineering** *Sep. 2012 - Jan. 2016*
National Tsing Hua University (NTHU), Taiwan
GPA: 4.02/4.3, ranking: 10/99 (graduated a half-year earlier)

RESEARCH INTEREST

Computer Vision and Deep Learning
learning with rejection, taxonomic classification, long-tail recognition, scene understanding, representation learning, multi-modal fusion, multi-task learning, continual learning

PUBLICATION

- Solving Long-tailed Recognition with Deep Realistic Taxonomic Classifier** *ECCV 2020*
Tz-Ying Wu, Pedro Morgado, Pei Wang, Chih-Hui Ho, and Nuno Vasconcelos
- Explainable Object-induced Action Decision for Autonomous Vehicles** *CVPR 2020*
Yiran Xu, Xiaoyin Yang, Lihang Gong, Hsuan-Chu Lin, **Tz-Ying Wu**, Yunsheng Li, Nuno Vasconcelos
- Exploit Clues from Views: Self-Supervised and Regularized Learning for Multiview Object Recognition** *CVPR 2020*
Chih-Hui Ho, Bo Liu, **Tz-Ying Wu**, Nuno Vasconcelos
- Liquid Pouring Monitoring via Rich Sensory Inputs** *ECCV 2018*
Tz-Ying Wu*, Juan-Ting Lin*, Tsun-Hsuang Wang, Chan-Wei Hu, Juan Carlos Niebles, Min Sun
- Anticipating Daily Intention using On-Wrist Motion Triggered Sensing** *ICCV 2017*
Tz-Ying Wu*, Ting-An Chien*, Cheng-Sheng Chan, Chan-Wei Hu, Min Sun (spotlight presentation)

DEMO

- Recognition from Hand Cameras: A Revisit with Deep Learning** *ACCV 2016*
Cheng-Sheng Chan, Ting-An Chien, **Tz-Ying Wu**, Min Sun

SKILLS

Programming Languages: Python, C/C++, MATLAB, Verilog, Assembly
Library & OS: Caffe, PyTorch, Tensorflow, Numpy, Pandas, Matplotlib, OpenCV, L^AT_EX, Linux
Languages: English, Chinese

HONORS AND DISTINCTIONS

UCSD Electrical and Computer Engineering Department Fellowship	<i>Fall 2018</i>
Appier Scholarship for attending international conference	<i>Fall 2017</i>
NTHU EECS Scholarship for attending international conference	<i>Fall 2017</i>
CVGIP 2017 Excellent Paper Award	<i>Summer 2017</i>
NTHU EE Admission Scholarship for outstanding students	<i>Fall 2016</i>
NTHU EECS Scholarship for outstanding students	<i>Fall 2014</i>
Jia-Bin Chen Scholarship for outstanding students in EE	<i>Fall 2014</i>
NTHU scholarship for academic excellence	<i>Fall 2013</i>
Breaking records in athletics of NTHU on three occasions	<i>Fall 2012 - Spring 2013</i>

WORK EXPERIENCE

IMEC-Taiwan CO. R&D department <i>Signal Processing Intern</i>	<i>Summer 2015</i>
Designed and implemented neuron-signal generator, encoder, and decoder framework.	

RESEARCH EXPERIENCE

Graduate Student Researcher, Statistical Visual Computing Lab, UCSD	<i>2018 - present</i>
Working on learning with rejection, taxonomic classification and scene understanding problems.	
Graduate Research Assistant, Vision Science Lab, NTHU	<i>2016 - 2018</i>
Developed wearable camera and IOT system with embedded boards. Conducted deep learning experiments for learning human behaviors using multi-modal fusion.	
Undergraduate Research, advised by Prof. Jing-Jia Liou, NTHU	<i>2014 - 2015</i>
FPGA Design of Accelerators with High-level Evaluation and Synthesis Tools	

TEACHING EXPERIENCE

Teaching Assistant, UCSD	
Statistical Learning II	<i>Winter 2019</i>
Teaching Assistant, NTHU	
Deep Learning Lab	<i>UNITEC - NTHU Summer School 2017</i>
Signals and Systems	<i>Spring 2016, 2017</i>
Introduction to Programming (C/C++)	<i>Fall 2015</i>

OTHER EXPERIENCE

Student volunteer	<i>ACCV 2016, ICCV 2017</i>
Member of EE student association of academic affair	<i>2014 - 2015, 2012 - 2013</i>
Team leader in the NTHUEE womens basketball team	<i>2014 - 2015</i>
Assisting in holding 2014 NTHU International Week	<i>Spring 2014</i>
Member of NTHU track and field team	<i>2012 - 2013</i>