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 Classier   *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, LaTeX, Linux
Languages: English, Chinese

HONORS AND DISTINCTIONS

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

WORK EXPERIENCE

IMEC-Taiwan CO. R&D department *Summer 2015*
Signal Processing Intern

Designed and implemented neuron-signal generator, encoder, and decoder framework.

RESEARCH EXPERIENCE

Graduate Student Researcher, Statistical Visual Computing Lab, UCSD *2018 - present*

Working on learning with rejection, taxonomic classification and scene understanding problems.

Graduate Research Assistant, Vision Science Lab, NTHU *2016 - 2018*

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 *2014 - 2015*

FPGA Design of Accelerators with High-level Evaluation and Synthesis Tools

TEACHING EXPERIENCE

Teaching Assistant, UCSD

Statistical Learning II *Winter 2019*

Teaching Assistant, NTHU

Deep Learning Lab	*UNITEC - NTHU Summer School 2017*
Signals and Systems	*Spring 2016, 2017*
Introduction to Programming (C/C++)	*Fall 2015*

OTHER EXPERIENCE

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