

CHIH-HUI HO

1(702)-684-1190 || chh279@ucsd.edu || chihhuiho.github.io

EDUCATION

University of California San Diego, La Jolla, CA PhD Candidate in Electrical and Computer Engineering (Advisor: Prof. Vasconcelos)	Sep. 2019 - Now
University of California San Diego, La Jolla, CA M.S. in Computer Science, GPA: 3.87/4.0	Sep. 2017 - Jun. 2019
University of Illinois at Urbana-Champaign, Champaign, IL Exchange student in Computer Science, GPA: 3.71/4.0	Jan. 2016 - May 2016
National Chiao Tung University, Hsinchu, Taiwan B.S. in EECS Honor Program, GPA: 4.15/4.3	Sep. 2012 - Jun. 2016

RESEARCH INTEREST

Deep Learning & Computer Vision: Metric learning, Adversarial attack, Self-supervised learning, Recognition, Multiview object classification, 3D understanding

SELECTED PUBLICATION

-
- **Chih-Hui Ho**, Nuno Vasconcelos, “Contrastive Learning with Adversarial Examples”, In *Neural Information Processing Systems (NeurIPS)*, 2020.
 - Tz-Ying Wu, Pedro Morgado, Pei Wang, **Chih-Hui Ho**, Nuno Vasconcelos, “Solving Long-tailed Recognition with Deep Realistic Taxonomic Classifier”, In *European Conference on Computer Vision (ECCV)*, 2020.
 - **Chih-Hui Ho**, Bo Liu, Tz-Ying Wu, Nuno Vasconcelos, “Exploit Clues from Views: Self-Supervised and Regularized Learning for Multiview Object Recognition”, In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
 - **Chih-Hui Ho**, Pedro Morgado, Amir Persekian, Nuno Vasconcelos, “PIEs: Pose Invariant Embeddings”, In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.
 - **Chih-Hui Ho**^{*}, Brandon Leung^{*}, Erik Sandstrom, Yen Chang, Nuno Vasconcelos, “Catastrophic Child’s Play: Easy to Perform, Hard to Defend Adversarial Attacks”, In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.
 - Jen-Hui Chuang, **Chih-Hui Ho**, Ardian Umam, HsinYi Chen, Mu-Tien Lu, Jenq-Neng Hwang, Tai-An Chen, “Geometry-based Camera Calibration Using Closed-form Solution of Principal Line”, *IEEE Transaction on Image Processing (TIP)*, 2019.

PROFESSIONAL EXPERIENCE

-
- | | |
|---|------------------------|
| Graduate Student Researcher, Statistical Visual Computing Lab, UCSD | Jan. 2018 - Now |
| • Working on multiview recognition, self-supervised learning, structured embedding | |
| Amazon AWS Applied Scientist Intern | Jun. 2021 - Sept. 2021 |
| • Developed a visual language model with 1.3x smaller model size and 3x faster speed | |
| Research Assistant, NCTU Computer Vision Research Center | Nov. 2016 - Jun. 2017 |
| • Designed bill serial number recognition system with more than 99 % accuracy | |
| • Developed camera calibration algorithm and implemented the algorithm into prototype | |
| Software Engineer Internship, Industrial Technology Research Institute | Jan. - Dec. 2015 |
| • Developed a prototype to calibrate robotic arm with an industrial camera | |
| • Received Mechanical and Systems Research Lab Prospective Project Excellence Award | |

ACADEMIC SERVICES AND AWARD

-
- **Reviewer:** NeurIPS, CVPR(outstanding award), ECCV, ICCV, TPAMI, ICML, ICLR, ACCV, WACV, ICIP
 - **UCSD Teaching Assistant:** ECE 271B Statistical Learning II, ECE 271C Deep Learning and Applications
 - **2021 Qualcomm Innovation Fellowship Finalist**

SKILLS

Languages & Library: Python, C/C++ , MATLAB, C#, Pytorch, OpenCV, Keras, L^AT_EX