

CHIH-HUI HO

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EDUCATION

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

RESEARCH INTEREST

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

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
- 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

- **Reviewer:** NeurIPS, CVPR (outstanding reviewer of 2021), ECCV, ICCV, ICML, ACCV, WACV, ICIP
- **Teaching Assistant:** ECE 271B Statistical Learning II, ECE 271C Deep Learning and Applications, UCSD

SELECTED AWARD

2021 Qualcomm Innovation Fellowship Finalist

SKILLS

Languages & Library: Python, C/C++ , MATLAB, C#, Pytorch, Tensorflow, OpenCV, Keras, \LaTeX