# Chi-Jui (Jerry) Ho

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## EDUCATION

**University of California San Diego (UCSD)** — **San Diego, USA**
*Ph.D. in Electrical and Computer Engineering* — *Sep. 2020 -*
GPA: 4.00/4.00

**National Taiwan University (NTU)** — **Taipei, Taiwan**
*B.S. in Electrical Engineering* — *Sep. 2015 - Jun. 2019*
GPA: 3.88/4.30

## PUBLICATIONS

- C.-J. Ho, M. Valentine, W. Xiong, and N. Antipa, "Compressed Sensing of 2D IR Using Spectroscopic Models," in *International Conference on Coherent Multidimensional Spectroscopy*, 2022.
- C.-J. Ho, Y. Wang, J. Zhang, T. Nguyen, and C. An, "A Convolutional Neural Network Pipeline for Multi-Temporal Retinal Image Registration," in *International SoC Design Conference*, 2021.
- C.-J. Ho, M. Calderon-Delgado, M.-Y. Lin, J.-W. Tjiu, S.-L. Huang, and H. H. Chen, "Classification of Squamous Cell Carcinoma from FF-OCT Images: Data Selection and Progressive Model Construction," in *Computerized Medical Imaging and Graphics* 93 (2021): 101992.
- C.-J. Ho, M. Calderon-Delgado, C.-C. Chan, M.-Y. Lin, J.-W. Tjiu, S.-L. Huang, and H. H. Chen, "Detecting mouse squamous cell carcinoma from submicron full-field optical coherence tomography images by deep learning," in *Journal of Biophotonics*, 2020.
- C.-J. Ho, C.-C. Chan, and H. H. Chen, "AF-Net: A Convolutional Neural Network Approach to Phase Detection Autofocus," in *IEEE Transactions on Image Processing*, vol. 29, pp. 6386-6395, 2020.
- C.-J. Ho and H. H. Chen, "On the Distinction between Phase images and Two-View Light Field for PDAF of Mobile Imaging," in *Electronic Imaging*, 2020.

## RESEARCH EXPERIENCE

**Computational Imaging Lab, UCSD** — **San Diego, USA**
*Graduate Student Researcher (advised by Nick Antipa)* — *Sep. 2020 -*
Research topic: Compressed sensing on spectroscopic reconstruction

**Video Processing Lab, UCSD** — **San Diego, USA**
*Graduate Student Researcher (advisor: Truong Q. Nguyen)* — *Sep. 2020 - Mar. 2022*
Research topic: 3D magnetic resonance imaging registration

**Multimedia Processing and Communications Lab, NTU** — **Taipei, Taiwan**
*Research Assistant (advised by Homer H. Chen)* — *Sep. 2017 - Mar. 2020*
Research topic: Classifying optical coherence tomography imaging
Research topic: Phase detection autofocus [Demo Video]

## ACADEMIC SERVICE

**Teaching Assistant** **Taipei, Taiwan**
*EE1006: Cornerstone EECS Design and Development* *2018 Spring and 2019 Spring*

**Journal Reviewer**
*IEEE Access* *2021*

## HONORS & AWARDS

- Electrical and Computer Engineering Department Fellowship, UCSD, Oct. 2020 - Jul. 2021
- 1st prize in NTUEE Undergraduate Innovation Award, NTU, Sep. 2019
- College Student Research Creativity Award, MOST, Taiwan, Sep. 2019
- College Student Research Scholarship, MOST, Taiwan, Jul. 2018 - Apr. 2019

## KEY SKILLS

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|---|---|
| **Programming Language** | Python, C++, Verilog, Matlab, Latex |
| **Frameworks** | Pytorch, OpenCV |
| **Natural Language** | Chinese (native speaker), English (fluent) |