

# Yun-Chun Chen

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🌐 YunChunChen

## Education

- Sept. 2014 **Bachelor of Science, National Taiwan University, Taipei, Taiwan.**  
– Jun. 2018 Department of Electrical Engineering

## Research Experience

- Jan. 2020 **Vision and Learning Lab, University of California, Merced, CA, USA.**  
– Jun. 2020 Short-term Visiting Scholar. Advisor: Prof. Ming-Hsuan Yang
  - Working on video-based 3D human pose estimation and shape recovery.
- Apr. 2019 **Vision and Learning Lab, Virginia Tech, VA, USA.**  
– Jul. 2019 Short-term Visiting Scholar. Advisor: Prof. Jia-Bin Huang
  - Proposed an algorithm for searching structured image prior for image restoration and synthesis tasks.
- Jul. 2017 **Computer Vision Lab, Academia Sinica, Taipei, Taiwan.**  
– Mar. 2019 Research Assistant. Advisors: Prof. Yen-Yu Lin, Prof. Jia-Bin Huang, and Prof. Ming-Hsuan Yang
  - Proposed a cross-task consistency algorithm for joint semantic matching and object co-segmentation.
  - Proposed a cross-resolution generative adversarial network for cross-resolution re-identification.
  - Proposed a cross-domain consistency algorithm for unsupervised domain adaptation.
  - Developed a weakly-supervised learning algorithm for semantic matching.
- Aug. 2019 **Vision and Learning Lab, National Taiwan University, Taipei, Taiwan.**  
– Nov. 2019 Research Assistant. Advisor: Prof. Yu-Chiang Frank Wang
  - Proposed a meta-learning algorithm for semi-supervised deep metric learning.
  - Proposed an adversarial learning algorithm to address the resolution mismatch issue in visual recognition.
- Nov. 2016 **Communication and Multimedia Lab, National Taiwan University, Taipei, Taiwan.**  
– Oct. 2018 Undergraduate Research Student. Advisor: Prof. Winston H. Hsu
  - Developed a 3D segmentation network for lung cancer radiomics-tumor region segmentation.
  - Developed a cross-view sequence learning algorithm for cross-domain image-based 3D shape retrieval.
  - Proposed a weakly-supervised learning method for object localization.

## Publications

### Journal papers

- PAMI 2020 **Show, Match and Segment: Joint Weakly Supervised Learning of Semantic Matching and Object Co-segmentation.**  
**Yun-Chun Chen**, Yen-Yu Lin, Ming-Hsuan Yang, and Jia-Bin Huang  
IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020
- PAMI **Cross-Resolution Adversarial Dual Network for Person Re-Identification and Beyond.**  
**Yun-Chun Chen\***, Yu-Jhe Li\*, Yen-Yu Lin, and Yu-Chiang Frank Wang  
IEEE Transactions on Pattern Analysis and Machine Intelligence (under review)

### Conference papers

- ICCV 2019 **Recover and Identify: A Generative Dual Model for Cross-Resolution Person Re-Identification.**  
**Yun-Chun Chen\***, Yu-Jhe Li\*, Yen-Yu Lin, Xiaofei Du, and Yu-Chiang Frank Wang  
IEEE International Conference on Computer Vision, Seoul, Korea, October, 2019

- CVPR 2019 **CrDoCo: Pixel-level Domain Transfer with Cross-Domain Consistency.**  
**Yun-Chun Chen**, Yen-Yu Lin, Ming-Hsuan Yang, and Jia-Bin Huang  
 IEEE Conference on Computer Vision and Pattern Recognition, Long Beach, California, June, 2019
- AAAI 2019 **Learning Resolution-Invariant Deep Representations for Person Re-Identification.**  
**Yun-Chun Chen\***, Yu-Jhe Li\*, Xiaofei Du, and Yu-Chiang Frank Wang  
 AAAI Conference on Artificial Intelligence, Honolulu, Hawaii, January, 2019 **Oral Presentation**
- ACCV 2018 **Deep Semantic Matching with Foreground Detection and Cycle-Consistency.**  
**Yun-Chun Chen**, Po-Hsiang Huang, Li-Yu Yu, Jia-Bin Huang, Ming-Hsuan Yang, and Yen-Yu Lin  
 Asian Conference on Computer Vision, Perth, Australia, December, 2018
- IEEE VIP Cup **Learning Volumetric Segmentation for Lung Tumor.**  
 ICIP 2018 Jhih-Yuan Lin, Min-Sheng Wu, Yu-Cheng Chang, **Yun-Chun Chen**, Chao-Te Chou, Chun-Ting Wu, and Winston H. Hsu  
 IEEE International Conference on Image Processing, Athens, Greece, October, 2018  
 IEEE Video and Image Processing (VIP) Cup **Third Place**
- ICASSP 2019 **Saliency Aware: Weakly Supervised Object Localization.**  
**Yun-Chun Chen** and Winston H. Hsu  
 IEEE International Conference on Acoustics, Speech and Signal Processing, Brighton, UK, May, 2019

## Teaching

- Spring 2018 **Teaching Assistant**, Machine Learning (Graduate Course).  
 Fall 2017 **Head Teaching Assistant**, Computer Programming.  
 Summer 2016 **Teaching Assistant**, Statistical Science Camp, Institute of Statistical Science, Academia Sinica.

## Honors and Awards

- Sept. 2019 **Scholarship**, Travel grant for ICCV 2019, Appier.  
 Aug. 2019 **Scholarship**, Travel grant for CVPR 2019, Appier.  
 Feb. 2019 **Travel Grant**, AAAI 2019, National Taiwan University.  
 Dec. 2018 **Travel Grant**, ACCV 2018, Academia Sinica.  
 Oct. 2018 **Third Place**, IEEE Video and Image Processing (VIP) Cup.  
 Nov. 2017 **Special Jury Award**, SDN/NFV Contest.  
 Oct. 2017 **China Technical Consultants Incorporation Scholarship.**  
 Sept. 2017 **Second Prize**, Undergraduate Innovation Award.  
 Jun. 2017 **Scholarship**, National Taiwan University.  
 Dec. 2015 **Honorable Mention**, NTU Triangle Alliance App Creativity Contest.

## Academic Services

- Reviewer Neural Information Processing Systems (**NeurIPS**) 2020  
 Reviewer European Conference on Computer Vision (**ECCV**) 2020  
 Reviewer IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) 2020  
 Reviewer AAAI Conference on Artificial Intelligence (**AAAI**) 2020  
 Reviewer IEEE International Conference on Computer Vision (**ICCV**) 2019  
 Reviewer British Machine Vision Conference (**BMVC**) 2019, 2020  
 Reviewer IEEE International Conference on Image Processing (**ICIP**) 2019