

Yi-Wen Chen

Curriculum Vitae

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Education

- Ph.D. Student **University of California, Merced, CA, USA.**
2019 – Present, Electrical Engineering and Computer Science
Vision and Learning Lab [link](#)
Advisor: Prof. Ming-Hsuan Yang
- Master of Science **National Taiwan University, Taipei, Taiwan.**
2017 – 2019, Communication Engineering
GPA: 3.98/4.30
- Bachelor of Science **National Taiwan University, Taipei, Taiwan.**
2013 – 2017, Electrical Engineering
GPA: 3.85/4.30

Research Interests

My research interests lie in **computer vision** and **deep learning**.
○ Video Object Segmentation ○ Representation Learning ○ Vision and Language

Publications

- ACCV 2020 **Regularizing Meta-Learning via Gradient Dropout.**
Hung-Yu Tseng*, Yi-Wen Chen* (* indicates equal contribution), Yi-Hsuan Tsai, Sifei Liu, Yen-Yu Lin, and Ming-Hsuan Yang
Asian Conference on Computer Vision, 2020
- IJCV 2020 **VOSTR: Video Object Segmentation via Transferable Representations.**
Yi-Wen Chen, Yi-Hsuan Tsai, Yen-Yu Lin, and Ming-Hsuan Yang
International Journal of Computer Vision, 2020
- BMVC 2019 **Referring Expression Object Segmentation with Caption-Aware Consistency.**
Yi-Wen Chen, Yi-Hsuan Tsai, Tiantian Wang, Yen-Yu Lin, and Ming-Hsuan Yang
British Machine Vision Conference, 2019
- ACCV 2018 **Unseen Object Segmentation in Videos via Transferable Representations.**
Yi-Wen Chen, Yi-Hsuan Tsai, Chu-Ya Yang, Yen-Yu Lin, and Ming-Hsuan Yang
Asian Conference on Computer Vision, 2018 **Best Student Paper Honorable Mention**

Research and Work Experience

- Research Intern **ByteDance AI Lab, Mountain View, CA, USA.**
May 2020 – Aug. 2020
Mentors: Xiaojie Jin, Xiaohui Shen, and Jianwei Li
Project: Video Saliency Detection
- Research Intern **ASUS Intelligent Cloud Services, Taipei, Taiwan.**
May 2019 – Jul. 2019
Mentors: Allen Kao, and Cheng-Hsien Han
Project: Pose-Guided Face Rotation
○ Developed a generative adversarial network (GAN) to generate yaw-rotated facial images based on facial landmarks.

- Research Assistant **Computer Vision Lab, CITI Academia Sinica**, Taipei, Taiwan.
Jun. 2017 – Jun. 2019
Mentors: Yen-Yu Lin, Yi-Hsuan Tsai, and Ming-Hsuan Yang
Project: Referring Expression Object Segmentation
- Developed the spatial-aware dynamic filters to bridge the visual and language domains for referring expression object segmentation.
 - Proposed an end-to-end trainable network for joint referring expression comprehension and generation via caption-aware consistency.
 - Paper is accepted to **BMVC 2019**.
- Project: Unseen Object Segmentation in Videos**
- Developed a self-supervised learning framework to transfer knowledge from seen objects in images to unseen objects in videos.
 - Papers are accepted to **ACCV 2018** and **IJCV 2020**.

Professional Activities

- Journal Reviewer
 - IEEE Transactions on Image Processing (TIP)
- Conference Reviewer
 - International Joint Conference on Artificial Intelligence (IJCAI), 2021
 - IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021
 - Association for the Advancement of Artificial Intelligence (AAAI), 2021
 - IEEE Winter Conference on Applications of Computer Vision (WACV), 2020
 - IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS), 2019

Honors and Awards

- Dec. 2018 **Best Student Paper Honorable Mention, ACCV 2018.**
For our work “Unseen Object Segmentation in Videos via Transferable Representations”

Teaching Experience

- Teaching Assistant **EECS, University of California, Merced.**
- CSE 015: Discrete Mathematics (Fall 2020)
 - CSE 031: Computer Organization (Spring 2020)
 - CSE 020: Introduction to Computing [Java Programming] (Fall 2019)

Selected Courses

- Machine Learning and Having it Deep and Structured
- Deep Learning for Computer Vision
- Digital Visual Effects
- Digital Speech Processing
- Advanced Digital Signal Processing
- Time-Frequency Analysis and Wavelet Transform
- Algorithms

Skills

- Programming Python, C/C++
- Toolbox/Software PyTorch, TensorFlow, Caffe, MATLAB, OpenCV

References

- Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced, CA, USA.
✉ mhyang@ucmerced.edu [🌐 homepage](#)
- Research Mentor **Yi-Hsuan Tsai**, *Research Scientist*, NEC Laboratories America, CA, USA.
✉ ytsai@nec-labs.com [🌐 homepage](#)
- Research Mentor **Yen-Yu Lin**, *Professor*, National Chiao Tung University, Hsinchu, Taiwan.
✉ lin@cs.nctu.edu.tw [🌐 homepage](#)