

# Yi-Wen Chen

## Curriculum Vitae

311 Science and Engineering Building 2

UC Merced, CA 95343

+1-209-628-7460

ychen319@ucmerced.edu

wenz116.github.io

### Research Interests

My research interests lie in **computer vision** and **deep learning**.

○ Video Object Segmentation ○ Representation Learning ○ Vision and Language

### 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

### Publications

Submitted to **A Paper on Meta-Learning.**

ACCV 2020 Hung-Yu Tseng, [Yi-Wen Chen](#), Yi-Hsuan Tsai, Sifei Liu, Yen-Yu Lin, and Ming-Hsuan Yang  
Asian Conference on Computer Vision, 2020

Submitted to **A Paper on Referring Expression Comprehension.**

NeurIPS 2020 [Yi-Wen Chen](#), Yi-Hsuan Tsai, and Ming-Hsuan Yang  
Neural Information Processing Systems, 2020

IJCV 2019 **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, 2019

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 **ASUS Intelligent Cloud Services, Taipei, Taiwan.**

May. 2019 – Jul. 2019

Mentor: Tai-Yi Huang, 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

Advisor: 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 2019**.

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## Professional Activities

**Conference Reviewer.**

- IEEE Winter Conference on Applications of Computer Vision (WACV), 2020
- IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS), 2019

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## Honors and Awards

Dec. 2018 **Best Student Paper Honorable Mention, ACCV 2018.**

For our work “Unseen Object Segmentation in Videos via Transferable Representations”

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## Teaching Experience

Teaching Assistant **EECS, University of California, Merced.**

- CSE 020: Introduction to Computing [Java Programming] (Fall 2019)
- CSE 031: Computer Organization (Spring 2020)

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## 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

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## Skills

Programming C/C++, Python, MATLAB

Toolkit PyTorch, TensorFlow, Keras, Caffe

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## References

Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced, CA, USA.

✉ mhyang@ucmerced.edu [f homepage](#)

Research Mentor **Yi-Hsuan Tsai**, *Research Scientist*, NEC Laboratories America, CA, USA.

✉ ytsai@nec-labs.com [f homepage](#)

Research Advisor **Yen-Yu Lin**, *Professor*, National Chiao Tung University, Hsinchu, Taiwan.

✉ lin@cs.nctu.edu.tw [f homepage](#)