

Yi-Wen Chen

Curriculum Vitae

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Education

- Ph.D. Candidate **University of California, Merced, CA, USA.**
2019 – Present, Electrical Engineering and Computer Science
Vision and Learning Lab [link](#)
Advisor: Prof. Ming-Hsuan Yang
GPA: 4.0/4.0
- 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**.
○ Vision Language Models ○ Video Understanding ○ Generative Models

Publications ([Google Scholar profile](#)) (* equal contribution)

- arXiv 2024 **Generalizable Entity Grounding via Assistance of Large Language Model.**
Lu Qi*, Yi-Wen Chen*, Lehan Yang*, Tiancheng Shen, Xiangtai Li, Weidong Guo, Yu Xu, and Ming-Hsuan Yang [paper](#)
- CVPR 2024 **Text-Driven Image Editing via Learnable Regions.**
Yuanze Lin, Yi-Wen Chen, Yi-Hsuan Tsai, Lu Jiang, and Ming-Hsuan Yang
IEEE Conference on Computer Vision and Pattern Recognition, 2024 [paper](#)
- IJCV 2022 **Understanding Synonymous Referring Expressions via Contrastive Features.**
Yi-Wen Chen, Yi-Hsuan Tsai, and Ming-Hsuan Yang
International Journal of Computer Vision, 2022 [paper](#)
- WACV 2022 **Video Salient Object Detection via Contrastive Features and Attention Modules.**
Yi-Wen Chen, Xiaojie Jin, Xiaohui Shen, and Ming-Hsuan Yang
IEEE Winter Conference on Applications of Computer Vision, 2022 [paper](#)
- NeurIPS 2021 **End-to-end Multi-modal Video Temporal Grounding.**
Yi-Wen Chen, Yi-Hsuan Tsai, and Ming-Hsuan Yang
Neural Information Processing Systems, 2021 [paper](#)
- ACCV 2020 **Regularizing Meta-Learning via Gradient Dropout.**
Hung-Yu Tseng*, Yi-Wen Chen*, Yi-Hsuan Tsai, Sifei Liu, Yen-Yu Lin, and Ming-Hsuan Yang
Asian Conference on Computer Vision, 2020 [paper](#)
- 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 [paper](#)
- 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 [paper](#)
- ACCV 2018 **Unseen Object Segmentation in Videos via Transferable Representations.**
Oral Yi-Wen Chen, Yi-Hsuan Tsai, Chu-Ya Yang, Yen-Yu Lin, and Ming-Hsuan Yang
Asian Conference on Computer Vision, 2018 [paper](#)
Best Student Paper Honorable Mention

Research and Work Experience

- Research Intern **Microsoft Research**, Seattle, WA, USA.
- Mar. 2023 – Jun. 2023
 - Mentor: Yen-Chun Chen
 - Project: Personalized Text-to-Video Generation
- Student Researcher **Google Research**, Seattle, WA, USA.
- May 2022 – Dec. 2022
 - Mentors: Boqing Gong and Tianyi Zhou
 - Project: Curriculum Learning for Visual Continued Pretraining
- Student Researcher **Google Research**, Mountain View, CA, USA.
- Jan. 2022 – May 2022
 - Mentor: Lu Jiang
 - Project: Text-Driven Image Editing
- Research Intern **Snap Research**, Santa Monica, CA, USA.
- May 2021 – Aug. 2021
 - Mentors: Hsin-Ying Lee, Jian Ren, and Sergey Tulyakov
 - Project: Complex Scene Generation with Object-Centric Generators
- Research Intern **ByteDance AI Lab**, Mountain View, CA, USA.
- May 2020 – Dec. 2020
 - Mentors: Xiaojie Jin and Xiaohui Shen
 - 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
- 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, Unseen Object Segmentation in Videos

Honors and Awards

- Award **CVPR Doctoral Consortium Award**, *CVPR*, 2024.
- Fellowship **Graduate Dean's Dissertation Fellowship**, *UC Merced*, 2024.
- Fellowship **Bobcat Fellowship**, *UC Merced*, 2021, 2022.
- Fellowship **Fred and Mitzie Ruiz Fellowship**, *UC Merced*, 2021, 2022.
- Award **Best Student Paper Honorable Mention**, *ACCV* 2018.
For our work "Unseen Object Segmentation in Videos via Transferable Representations"

Professional Activities

- Journal Reviewer
- International Journal of Computer Vision (IJCV)
 - IEEE Transactions on Image Processing (TIP)
- Conference Reviewer
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021, 2022, 2023, 2024
 - IEEE International Conference on Computer Vision (ICCV), 2021, 2023
 - European Conference on Computer Vision (ECCV), 2022, 2024
 - IEEE Winter Conference on Applications of Computer Vision (WACV), 2020, 2022, 2023
 - International Joint Conference on Artificial Intelligence (IJCAI), 2021, 2023
 - AAAI Conference on Artificial Intelligence (AAAI), 2021, 2022
 - IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS), 2019

Teaching Experience

- Teaching Assistant **EECS, University of California, Merced.**
- CSE 015: Discrete Mathematics (Spring 2022)
 - CSE 106: Exploratory Computing (Fall 2021)
 - CSE 185: Introduction to Computer Vision (Spring 2021)
 - CSE 015: Discrete Mathematics (Fall 2020)
 - CSE 031: Computer Organization (Spring 2020)
 - CSE 020: Introduction to Computing (Fall 2019)

Skills

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

References

- Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced, CA, USA.
✉ mhyang@ucmerced.edu [🌐 homepage](#)
- Research Mentor **Yi-Hsuan Tsai**, *Co-Founder and CTO*, Atmanity, CA, USA.
✉ wasidennis@gmail.com [🌐 homepage](#)
- Research Advisor **Yen-Yu Lin**, *Professor*, National Yang Ming Chiao Tung University, Hsinchu, Taiwan.
✉ lin@cs.nctu.edu.tw [🌐 homepage](#)