

# Yi-Wen Chen

## Curriculum Vitae

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📁 [wenz116.github.io](https://github.com/wenz116)

### Education

- Ph.D. **University of California, Merced, CA, USA.**  
2019 – 2024, 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

**Computer Vision** and **Deep Learning**, with a primary focus on

- Vision-Language Models
- Generative AI
- Multimodal Learning
- Video Understanding
- Foundation 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**

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## 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

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## 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"

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## 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, 2025
  - 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

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## 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)

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## Skills

Programming Python, C++, Java  
Frameworks PyTorch, TensorFlow, JAX  
Tools Git, Docker, Linux/Unix, MATLAB

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## 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](#)