

Hsin-Ping Huang

Curriculum Vitae

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

Education

- Ph.D. Candidate **University of California, Merced**
2020 – Present, Electrical Engineering and Computer Science, GPA: 4.0/4.0
Advisor: Ming-Hsuan Yang
- M.S. **The University of Texas at Austin**
2017 – 2020, Computer Science, GPA: 3.9/4.0
- B.S. **National Taiwan University**
2013 – 2017, Electrical Engineering, GPA: 4.2/4.3, Rank: 3rd/166

Research Interests

Deep Learning for Computer Vision
◦ Image, Video and 3D Generation and Manipulation ◦ Optical Flow

Publications [\[Google Scholar profile\]](#)

- arXiv 2024 **Move-in-2D: 2D-Conditioned Human Motion Generation** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Yang Zhou, Jui-Hsien Wang, Difan Liu, Feng Liu, Ming-Hsuan Yang, Zhan Xu
- arXiv 2024 **KITTEN: A Knowledge-Intensive Evaluation of Image Generation on Visual Entities** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Xinyi Wang, Yonatan Bitton, Hagai Taitelbaum, Gaurav Singh Tomar, Ming-Wei Chang, Xuhui Jia, Kelvin C.K. Chan, Hexiang Hu, Yu-Chuan Su, Ming-Hsuan Yang
- WACV 2025 **Fine-grained Controllable Video Generation via Object Appearance and Context** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Yu-Chuan Su, Deqing Sun, Lu Jiang, Xuhui Jia, Yukun Zhu, Ming-Hsuan Yang
- WACV 2025 **Generating Long-take Videos via Effective Keyframes and Guidance** [\[Paper\]](#)
[Hsin-Ping Huang](#), Yu-Chuan Su, Ming-Hsuan Yang
- CVPR 2023 **Self-supervised AutoFlow** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Charles Herrmann, Junhwa Hur, Erika Lu, Kyle Sargent, Austin Stone, Ming-Hsuan Yang, Deqing Sun
- ECCV 2022 **Adaptive Transformers for Robust Few-shot Cross-domain Face Anti-spoofing** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Deqing Sun, Yaojie Liu, Wen-Sheng Chu, Taihong Xiao, Jinwei Yuan, Hartwig Adam, Ming-Hsuan Yang
- ICCV 2021 **Learning to Stylize Novel Views** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Hung-Yu Tseng, Saurabh Saini, Maneesh Singh, Ming-Hsuan Yang
- ICASSP 2021 **Unsupervised and Semi-Supervised Few-Shot Acoustic Event Classification** [\[Paper\]](#)
[Hsin-Ping Huang](#), Krishna C. Puvvada, Ming Sun, Chao Wang
- ECCV 2020 **Semantic View Synthesis** [\[Project Page\]](#) [\[Paper\]](#)
[Hsin-Ping Huang](#), Hung-Yu Tseng, Hsin-Ying Lee, Jia-Bin Huang

CoNLL 2019 **Unsupervised Adversarial Domain Adaptation for Implicit Discourse Relation Classification** [\[Paper\]](#)
[Hsin-Ping Huang](#), Junyi Jessy Li

Honors and Awards

Mar. 2024 **Bobcat Fellowship**, University of California, Merced
Outstanding academic achievement

Aug. 2022 **ECCV Travel Award**

Feb. 2022 **Meta PhD Research Fellowship Finalist**
AR/VR Human Understanding [\[Webpage\]](#)

2014 – 2016 **Presidential Award (4 times)**, National Taiwan University
Top 5% academic achievement

Research and Work Experience

Research Intern **Adobe Research**, San Jose, CA

- Jun. 2024 – Nov. 2024
- Mentor: Zhan Xu, Yang Zhou, Jui-Hsien Wang, Difan Liu, Feng Liu
- Project: Human Video Generation

Student Researcher **Google DeepMind**, Seattle, WA

- Jan. 2024 – May 2024
- Mentor: Yu-Chuan Su, Hexiang (Frank) Hu, Kelvin Chan, Xinyi Wang
- Project: Evaluation of Image Generation on Visual Entities

Student Researcher **Google Research**, Seattle, WA

- Apr. 2023 – Dec. 2023
- Mentor: Yu-Chuan Su, Deqing Sun, Lu Jiang
- Project: Fine-grained Video Generation of Objects' Categories, Locations, and Appearances

Student Researcher **Google Research**, Seattle, WA

- Jun. 2022 – Mar. 2023
- Mentor: Yu-Chuan Su, Ming-Hsuan Yang
- Project: Long Video Generation with Different Events Specified by Multiple Guidance

Student Researcher **Google Research**, Cambridge, MA

- Jan. 2022 – Nov. 2022
- Mentor: Deqing Sun, Charles Herrmann, Junhwa Hur
- Project: Learning to Render Training Sets for Optical Flow in Unlabeled Domains

Research Intern **Google Research**, Mountain View, CA

- May 2021 – Dec. 2021
- Mentor: Deqing Sun, Yaojie Liu, Wen-Sheng (Vincent) Chu
- Project: Few-shot Cross-domain Face Anti-spoofing

Research Assistant **Vision and Learning Lab**, University of California, Merced, CA

- Aug. 2020 – Apr. 2021
- Mentor: Hung-Yu Tseng, Maneesh Singh, Ming-Hsuan Yang
- Project: 3D Scene Stylization Given Images at Source Views and a Style Image

Research Intern **Amazon Alexa**, Cambridge, MA

- May 2020 – Aug. 2020
- Mentor: Krishna Puvvada, Ming Sun, Chao Wang
- Project: Unsupervised and Semi-supervised Learning for Few-shot Acoustic Event Detection

- Student Researcher **Vision and Learning Lab**, Virginia Tech, VA
- Feb. 2019 – Mar. 2020
 - Mentor: Jia-Bin Huang, Hung-Yu Tseng, Hsin-Ying Lee
 - Project: Generating Free-viewpoint Rendering of Synthesized Images from Semantic Maps
- Student Researcher **Computational Discourse Lab**, The University of Texas at Austin, TX
- Feb. 2018 – Aug. 2018
 - Mentor: Junyi Jessy Li
 - Project: Classifying Implicit Discourse Relations Without Annotations

Professional Activities

- Journal Reviewer
- Computer Vision: TPAMI, IJCV, CVIU
 - Computer Graphics: Computer Graphics Forum
- Conference Reviewer
- Computer Vision: WACV'25, ACCV'24, ECCV'24, ICCV'23, CVPR'23, ECCV'22, CVPR'22, ICCV'21
 - Machine Learning: ICLR'25, NeurIPS'24
 - Artificial Intelligence: IJCAI'24, AAAI'24, IJCAI'23, AAAI'23

Teaching Experience

- Aug. 2020 – May 2022 **EECS, University of California, Merced**
- CSE 031 Computer Organization (Fall 2021, Spring 2022)
 - CSE 162 Mobile Computing (Spring 2021)
 - CSE 120 Software Engineering (Fall 2020)
- Aug. 2017 – May 2020 **CS, The University of Texas at Austin**
- CS 303E Elements of Computers and Programming (Spring 2019, Fall 2019, Spring 2020)
 - CS 329E Elements of Software Engineering (Fall 2018)
 - CS 324E Elements of Graphics (Spring 2018)
 - CS 331 Algorithms and Complexity (Fall 2017)

Technical Skills

- Programming C/C++, Python
- Toolbox / Software Pytorch, Tensorflow, JAX, MATLAB, OpenCV

References

- Ph.D. Advisor **Ming-Hsuan Yang**, Professor, University of California, Merced
✉ mhyang@ucmerced.edu [\[Homepage\]](#)
- Internship Mentor **Zhan Xu**, Research Scientist, Adobe Research
✉ zhaxu@adobe.com [\[Homepage\]](#)
- Internship Mentor **Deqing Sun**, Research Scientist, Google DeepMind
✉ deqing.sun@gmail.com [\[Homepage\]](#)
- Internship Mentor **Yu-Chuan Su**, Research Scientist, Google DeepMind
✉ ycsu@google.com [\[Homepage\]](#)
- Research Advisor **Jia-Bin Huang**, Associate Professor, University of Maryland, College Park
✉ jbh Huang@umd.edu [\[Homepage\]](#)
- Research Mentor **Hung-Yu Tseng**, Research Scientist, Meta Reality Labs
✉ hytseng0509@gmail.com [\[Homepage\]](#)