Hsin-Ping Huang

Curriculum Vitae

✉ hhuang79@ucmerced.edu
⌂ hhsinping.github.io

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

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Publications [Google Scholar profile]

arXiv 2024   **KITTEN: A Knowledge-Intensive Evaluation of Image Generation on Visual Entities** [Project Page] [Paper]
<u>Hsin-Ping Huang</u>, 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]
<u>Hsin-Ping Huang</u>, 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]
<u>Hsin-Ping Huang</u>, Yu-Chuan Su, Ming-Hsuan Yang

CVPR 2023   **Self-supervised AutoFlow** [Project Page] [Paper]
<u>Hsin-Ping Huang</u>, 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]
<u>Hsin-Ping Huang</u>, 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]
<u>Hsin-Ping Huang</u>, Hung-Yu Tseng, Saurabh Saini, Maneesh Singh, Ming-Hsuan Yang

ICASSP 2021   **Unsupervised and Semi-Supervised Few-Shot Acoustic Event Classification** [Paper]
<u>Hsin-Ping Huang</u>, Krishna C. Puvvada, Ming Sun, Chao Wang

ECCV 2020   **Semantic View Synthesis** [Project Page] [Paper]
<u>Hsin-Ping Huang</u>, Hung-Yu Tseng, Hsin-Ying Lee, Jia-Bin Huang

CoNLL 2019   **Unsupervised Adversarial Domain Adaptation for Implicit Discourse Relation Classification** [Paper]
<u>Hsin-Ping Huang</u>, 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
	✉ jbhuang@umd.edu [Homepage]
Research Mentor	**Hung-Yu Tseng**, Research Scientist, Meta Reality Labs
	✉ hytseng0509@gmail.com [Homepage]