

Hsin-Ping Huang

Curriculum Vitae

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📄 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 and Video Generation ◦ 3D Content Creation ◦ Optical Flow

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

- In Submission **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
- In Submission **Generating Long Videos via Effective Keyframes and Guidance**
[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 – Present
 - Mentor: Zhan Xu, Jimei Yang
- Student Researcher **Google Research**, Seattle, WA
- Jan. 2024 – May 2024
 - Mentor: Yu-Chuan Su, Hexiang (Frank) Hu, Kelvin Chan
 - Project: Factuality Analysis in Text-to-image Generation
- 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 IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022
International Journal of Computer Vision (IJCV), 2022, 2023
Computer Vision and Image Understanding (CVIU), 2021
Computer Graphics Forum, 2021-2022

Conference Reviewer IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022, 2023
IEEE International Conference on Computer Vision (ICCV), 2021, 2023
European Conference on Computer Vision (ECCV), 2022, 2024
AAAI Conference on Artificial Intelligence (AAAI), 2023, 2024
International Joint Conference on Artificial Intelligence (IJCAI), 2023, 2024

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 **Deqing Sun**, Research Scientist, Google Research
✉ deqing.sun@gmail.com [[Homepage](#)]

Internship Mentor **Yu-Chuan Su**, Research Scientist, Google Research
✉ 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](#)]