

Hsin-Ping Huang

Curriculum Vitae

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Education

- 2020 – Present **Ph.D. Student**, *University of California, Merced, CA, USA.*
Electrical Engineering and Computer Science, GPA: 4.0/4.0
Vision and Learning Lab [link](#)
Advisor: Prof. Ming-Hsuan Yang
- 2017 – 2020 **Master of Science**, *The University of Texas at Austin, TX, USA.*
Computer Science, GPA: 3.9/4.0
- 2013 – 2017 **Bachelor of Science**, *National Taiwan University, Taipei, Taiwan.*
Electrical Engineering, GPA: 4.2/4.3, rank: 3rd/166

Research Interests

Computer Vision, Machine Learning

Publications

- CVPR 2023 **Self-supervised AutoFlow.**
[Hsin-Ping Huang](#), Charles Herrmann, Junhwa Hur, Erika Lu, Kyle Sargent, Austin Stone, Ming-Hsuan Yang, Deqing Sun
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- ECCV 2022 **Adaptive Transformers for Robust Few-shot Cross-domain Face Anti-spoofing.**
[Hsin-Ping Huang](#), Deqing Sun, Yaojie Liu, Wen-Sheng Chu, Taihong Xiao, Jinwei Yuan, Hartwig Adam, Ming-Hsuan Yang
European Conference on Computer Vision (ECCV), 2022
- ICCV 2021 **Learning to Stylize Novel Views.**
[Hsin-Ping Huang](#), Hung-Yu Tseng, Saurabh Saini, Maneesh Singh, Ming-Hsuan Yang
IEEE International Conference on Computer Vision (ICCV), 2021
- ICASSP 2021 **Unsupervised and Semi-Supervised Few-Shot Acoustic Event Classification.**
[Hsin-Ping Huang](#), Krishna C. Puvvada, Ming Sun, Chao Wang
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021
- ECCV 2020 **Semantic View Synthesis.**
[Hsin-Ping Huang](#), Hung-Yu Tseng, Hsin-Ying Lee, Jia-Bin Huang
European Conference on Computer Vision (ECCV), 2020
- CoNLL 2019 **Unsupervised Adversarial Domain Adaptation for Implicit Discourse Relation Classification.**
[Hsin-Ping Huang](#), Junyi Jessie Li
The SIGNLL Conference on Computational Natural Language Learning (CoNLL), 2019

Research Experience

- Jun. 2022 – Present **Google Research, Seattle.**
Student Researcher with Dr. Yu-Chuan Su
• Novel view synthesis / video generation

- Jan. 2022 – Nov. 2022 **Google Research, Cambridge.**
Student Researcher with Dr. Deqing Sun, Dr. Charles Herrmann and Dr. Junhwa Hur
 • Proposed Self-AutoFlow to learn to render a training set for optical flow using self-supervision on the target domain, connecting learning to render and self-supervised learning
- May. 2021 – Dec. 2021 **Google Research, Mountain View.**
Research Intern with Dr. Deqing Sun, Dr. Yaojie Liu and Dr. Wen-Sheng Chu
 • Introduced ensemble adapters and feature transformation modules for vision transformers to achieve robust performance for cross-domain face anti-spoofing with a few samples
- Aug. 2020 – Present **Vision and Learning Lab, EECS, University of California, Merced.**
Advisor: Prof. Ming-Hsuan Yang
 • Tackled a 3D scene stylization problem that generates stylized images of a scene from arbitrary novel views given images at source views and a reference style image
- May. 2020 – Aug. 2020 **Amazon Alexa, Cambridge.**
Research Intern with Dr. Krishna Puvvada, Dr. Ming Sun and Dr. Chao Wang
 • Developed unsupervised/semi-supervised methods for few-shot acoustic event detection
- Feb. 2019 – Mar. 2020 **Vision and Learning Lab, ECE, Virginia Tech.**
Advisor: Prof. Jia-Bin Huang
 • Generated free-viewpoint rendering of a synthesized image given a semantic label map.
- Feb. 2018 – Aug. 2018 **Computational Discourse Lab, Linguistics, The University of Texas at Austin.**
Advisor: Prof. Junyi Jessy Li
 • Exploited explicit discourse relations to classify implicit relations without labels based on adversarial discriminative domain adaptation.

Professional Activities

- Journal Reviewer 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
 AAAI Conference on Artificial Intelligence (AAAI), 2023
 International Joint Conference on Artificial Intelligence (IJCAI), 2023

Awards

- Aug. 2022 **ECCV Travel Award.**
- Feb. 2022 **Meta PhD Research Fellowship Finalist.**
 AR/VR Human Understanding
- Jun. 2017 **Class Valedictorian**, EE, National Taiwan University.
 3rd place graduation (3/166)
- 2014 – 2016 **Presidential Award (4 times)**, EE, National Taiwan University.
 Top 5% of students in one semester

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, Matlab, OpenCV

References

- Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced.
✉ mhyang@ucmerced.edu [📄 homepage](#)
- Research Advisor **Jia-Bin Huang**, *Research Scientist*, Meta Reality Labs.
✉ jbh Huang0604@gmail.com [📄 homepage](#)
- Research Mentor **Hung-Yu Tseng**, *Research Scientist*, Meta Reality Labs.
✉ hytseng0509@gmail.com [📄 homepage](#)
- Internship Mentor **Deqing Sun**, *Research Scientist*, Google Research.
✉ deqingsun@google.com [📄 homepage](#)
- Internship Mentor **Yu-Chuan Su**, *Research Scientist*, Google Research.
✉ ycsu@google.com [📄 homepage](#)