

Hsin-Ping Huang

Curriculum Vitae

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📄 <https://hhsinping.github.io/>

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

- 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 Jessy 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 and Dr. Wei-Sheng Lai
• Novel view synthesis / video generation
- Jan. 2022 – May. 2022 **Google Research, Cambridge.**
Student Researcher with Dr. Deqing Sun and Dr. Charles Herrmann
• Self-supervised learning for optical flow

- 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
 Computer Vision and Image Understanding (CVIU), 2021
 Computer Graphics Forum, 2021-2022
- Conference Reviewer European Conference on Computer Vision (ECCV), 2022
 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
 IEEE International Conference on Computer Vision (ICCV), 2021

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](#)