Hsin-Ping Huang

Curriculum Vitae

311 Science and Engineering Building 2
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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

ECCV 2022   **Adaptive Transformers for Robust Few-shot Cross-domain Face Anti-spoofing**.
<u>Hsin-Ping Huang</u>, 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**.
<u>Hsin-Ping Huang</u>, 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**.
<u>Hsin-Ping Huang</u>, Krishna C. Puvvada, Ming Sun, Chao Wang
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021

ECCV 2020   **Semantic View Synthesis**.
<u>Hsin-Ping Huang</u>, 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**.
<u>Hsin-Ping Huang</u>, Junyi Jessy Li
The SIGNLL Conference on Computational Natural Language Learning (CoNLL), 2019

Research Experience

Jun. 2022 – Present   **Google Research, Seatle**.
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	IEEE International Conference on Computer Vision (ICCV), 2021
	IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
	European Conference on Computer Vision (ECCV), 2022

Awards

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 120 Software Engineering (Fall 2020)
	○ CSE 162 Mobile Computing (Spring 2021)
	○ CSE 031 Computer Organization (Fall 2021, Spring 2022)
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. ✉ jbhuang0604@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