Hsin-Ying Lee

Curriculum Vitae

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2016–2020 Ph.D. Student, University of California, Merced, CA, USA.

Electrical and Computer Engineering Vision and Learning Lab 1 link

2015–2016 Masters of Science, University of Southern California, CA, USA.

Electrical Engineering

2010–2014 Bachelor of Science, National Taiwan University, Taipei, Taiwan.

Electrical Engineering

Work Experience

July. 2020 - Present Creative Vision, Snap Inc. CA.

Senior Research Scientist.

May. 2019 - Mar. 2020 Google Research, Mountain View, CA.

Research Intern. Mentor: Weilong Yang

Dec. 2018 - May. 2019 Google Cloud AI, Sunnyvale, CA.

Student Researcher. Mentor: Lu Jiang, Ming-Hsuan Yang

May. 2018 - Nov. 2018 Nvidia Research, Santa Clara, CA.

Research Intern. Mentor: Xiaodon Yang, Ming-Yu Liu

May. 2017 - Aug. 2017 Google Video Content Analysis, Mountan View.

Intern. Mentor: Min-Hsuan Tsai

Aug. 2016 - May. Vision and Learning Lab, EECS, University of California, Merced.

2020 Research Assistant. Advisor: Ming-Hsuan Yang

Publications (Google Scholar profile)

SIGGRAPH Asia 2023 Text-Guided Synthesis of Eulerian Cinemagraphs.

Aniruddha Mahapatra, Aliaksandr Siarohin, Hsin-Ying Lee, Sergey Tulyakov, Jun-Yan Zhu

ICCV 2023 Text2tex: Text-driven texture synthesis via diffusion models.

Dave Zhenyu Chen, Yawar Siddiqui, Hsin-Ying Lee, Sergey Tulyakov, Matthias Nießner

ICCV 2023 InfiniCity: Infinite-Scale City Synthesis.

Chieh Hubert Lin, <u>Hsin-Ying Lee</u>, Willi Menapace, Menglei Chai, Aliaksandr Siarohin, Ming-Hsuan Yang, Sergey Tulyakov

CVPR 2023 3DAvatarGAN: Bridging Domains for Personalized Editable Avatars.

Rameen Abdal, <u>Hsin-Ying Lee</u>, Peihao Zhu, Menglei Chai, Aliaksandr Siarohin, Peter Wonka, Sergey Tulyakov

- CVPR 2023 **SDFusion: Multimodal 3D Shape Completion, Reconstruction, and Generation**. Yen-Chi Cheng, Hsin-Ying Lee, Sergey Tulyakov, Alexander Schwing, Liangyan Gui
- CVPR 2023 **Make-A-Story: Visual Memory Conditioned Consistent Story Generation**.

 Tanzila Rahman, <u>Hsin-Ying Lee</u>, Jian Ren, Sergey Tulyakov, Shweta Mahajan, Leonid Sigal
- CVPR 2023 (highlight) DiscoScene: Spatially Disentangled Generative Radiance Field for Controllable 3D-aware Scene Synthesis.

Yinghao Xu, Menglei Chai, Zifan Shi, Sida Peng, Ivan Skorokhodov, Aliaksandr Siarohin, Ceyuan Yang, Yujun Shen, <u>Hsin-Ying Lee</u>, Bolei Zhou, Sergey Tulyakov

CVPR 2023 Unsupervised Volumetric Animation.

Aliaksandr Siarohin, Willi Menapace, Ivan Skorokhodov, Kyle Olszewski, Jian Ren, Hsin-Ying Lee, Menglei Chai, Sergey Tulyakov

ICLR 2023 (oral) 3D Generation on ImageNet.

Ivan Skorokhodov, Aliaksandr Siarohin, Yinghao Xu, Jian Ren, <u>Hsin-Ying Lee</u>, Peter Wonka, Sergey Tulyakov

WACV 2023 Adaptively-Realistic Image Generation from Stroke and Sketch with Diffusion Model.

Shin-I Cheng, Yu-Jie Chen, Wei-Chen Chiu, Hsin-Ying Lee, Hung-Yu Tseng

ECCV 2022 Vector Quantized Image-to-Image Translation.

Yu-Jie Chen, Shin-I Cheng, Wei-Chen Chiu, Hung-Yu Tseng, Hsin-Ying Lee

ECCV 2022 Show Me What and Tell Me How: Video Synthesis via Multimodal Conditioning.

Ligong Han, Jian Ren, <u>Hsin-Ying Lee</u>, Francesco Barbieri, Kyle Olszewski, Shervin Minaee, Dimitris Metaxas, Sergey Tulyakov

ECCV 2022 Cross-Modal 3D Shape Generation and Manipulation.

Zezhou Cheng, Menglei Chai, Jian Ren, <u>Hsin-Ying Lee</u>, Kyle Olszewski, Zeng Huang, Subhransu Maji, Sergey Tulyakov

ICLR 2022 InfinityGAN: Towards Infinite-Resolution Image Synthesis.

Chieh Hubert Lin, Hsin-Ying Lee, Yen-Chi Cheng, Sergey Tulyakov, Ming-Hsuan Yang

CVPR 2022 InOut: Diverse Image Outpainting via GAN Inversion.

Yen-Chi Cheng, Chieh Hubert Lin, Hsin-Ying Lee, Jian Ren, Sergey Tulyakov, Ming-Hsuan Yang

NeurIPS 2021 Exploring cross-video and cross-modality signals for weakly-supervised audio-visual video parsing.

Yan-Bo Lin, Hung-Yu Tseng, Hsin-Ying Lee, Yen-Yu Lin, and Ming-Hsuan Yang

ECCV 2020 RetrieveGAN: Image Synthesis via Differentiable Patch Retrieval.

Hung-Yu Tseng, Hsin-Ying Lee, Lu Jiang, Ming-Hsuan Yang, Weilong Yang

ECCV 2020 Controllable Image Synthesis via SegVAE.

Yen-Chi Cheng, Hsin-Ying Lee, Min Sun, Ming-Hsuan Yang

ECCV 2020 Semantic View Synthesis.

Hsin-Ping Huang, Hung-Yu Tseng, Hsin-Ying Lee, Jia-Bin Huang

ECCV 2020 (spotlight) Neural Design Network: Graphic Layout Generation with Constraints.

<u>Hsin-Ying Lee</u>, Weilong Yang, Lu Jiang, Madison Le, Irfan Essa, Haifeng Gong, Ming-Hsuan Yang

ICLR 2020 (spotlight) Cross-Domain Few-Shot Classification via Learned Feature-Wise Transformation

Hung-Yu Tseng, <u>Hsin-Ying Lee</u>, Jia-Bin Huang, Ming-Hsuan Yang International Conference on Learning Representations, 2020

IJCV 2019 DRIT++: Diverse Image-to-Image Translation via Disentangled Representations.

<u>Hsin-Ying Lee*</u>, Hung-Yu Tseng*, Qi Mao*, Jia-Bin Huang, Yu-Ding Lu, Maneesh Kumar Singh, and Ming-Hsuan Yang,

International Journal of Computer Vision

NeurIPS 2019 Dancing to Music.

Hsin-Ying Lee, Xiaodong Yang, Ming-Yu Liu, Ting-Chung Wang, Yu-Ding Lu Ming-Hsuan Yang, and Jan Kautz

Conference on Neural Information Processing Systemn, 2019

ICIP 2019 Self-supervised Audio Spatialization with Correspondence Classifier.

Yu-Ding Lu, <u>Hsin-Ying Lee</u>, Hung-Yu Tseng, Ming-Hsuan Yang IEEE International Conference on Image Processing, 2019

CVPR 2019 Mode Seeking Generative Adversarial Networks for Diverse Image Synthesis.

Mao Qi*, <u>Hsin-Ying Lee*</u>, Hung-Yu Tseng*, and Ming-Hsuan Yang IEEE Conference on Computer Vision and Pattern Recognition, 2019

ECCV 2018 (oral) Diverse Image-to-Image Translation via Disentangled Representations.

<u>Hsin-Ying Lee*</u>, Hung-Yu Tseng*, Jia-Bin Huang, Maneesh Kumar Singh, and Ming-Hsuan Yang,

European Conference on Computer Vision, 2018

ECCV 2018 Sub-GAN: An Unsupervised Generative Model via Subspaces.

Jie Liang, Jufeng Yang, <u>Hsin-Ying Lee</u>, Kai Wang, and Ming-Hsuan Yang, European Conference on Computer Vision, 2018

ICCV 2017 Unsupervised Representation Learning by Sorting Sequence.

<u>Hsin-Ying Lee</u>, Jia-Bin Huang, Maneesh Kumar Singh, and Ming-Hsuan Yang, International Conference on Computer Vision, 2017

TCAD 2017 **NTUplace4dr:** a detailed-routing-driven placer for mixed-size circuit designs with technology and region constraints.

Chau-Chin Huang, <u>Hsin-Ying Lee</u>, Bo-Qiao Lin, Sheng-Wei Yang, Chin-Hao Chang, Szu-To Chen, Yao-Wen Chang, Tung-Chieh Chen, Ismail Bustany, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems

DAC 2017 Graph-Based Logic Bit Slicing for Datapath-Aware Placement.

Chau-Chin Huang, <u>Hsin-Ying Lee</u>, Bo-Qiao Lin, Yao-Wen Cheng, Design Automation Conference, 2017

CVPR 2016 Soft-Segmentation Guided Object Motion Deblurring.

Jinshan Pan, Zhe Hu, <u>Hsin-Ying Lee</u>, and Ming-Hsuan Yang, Conference on Computer Vision and Pattern Recognition, 2016

ICCAD 2015 Detailed-routability-driven analytical placement for mixed-size designs with technology and region constraints.

Chau-Chin Huang, <u>Hsin-Ying Lee</u>, Bo-Qiao Lin, Sheng-Wei Yang, Chin-Hao Chang, Szu-To Chen, Yao-Wen Chang

International Conference on Computer-Aided Design, 2015

Communications Bio-inspired Proximity Discovery and Synchronization for D2D Letters 2013 Communications.

Shih-Lung Chao, <u>Hsin-Ying Lee</u>, Ching-Chun Chou, and Hung-Yu Wei IEEE Communications Letters, Volume 17, Issue 12, Page 2300 - 2303, Dec. 2013

Academic Services

Area Chair CVPR 2024,ICLR 2024, AAAI 2024, CVPR 2023, NeurIPS 2023, AAAI 2023, BMVC

2021

Reviewer CVPR, ICCV, ECCV, ICLR, NeurIPS, SIGGRAPH, SIGGRAPH Asia, BMVC, WACV,

CVIU, IJCV, TPAMI, TETCI

Organizer CVPR 2021 Tutorial on Unlocking Creativity with Computer Vision: Representations

for Animation, Stylization and Manipulation