

# Hsin-Ying Lee

## Curriculum Vitae

311 Science and Engineering Building 2  
UC Merced, CA 95343  
☎ +1-213-590-3329  
✉ hlee246@ucmerced.edu  
🌐 <http://vllab.ucmerced.edu/~hylee/>

### Education

- 2016–Present **Ph.D. Student**, *University of California, Merced, CA, USA.*  
Electrical and Computer Engineering  
Vision and Learning Lab [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  
○ rank: 4/198  
○ GPA: 4.0

### Research Interests

Computer Vision, Machine Learning

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

- Under Submission **Neural Design Network: Graphic Layout Generation with Constraints.**  
[Hsin-Ying Lee](#), Weilong Yang, Lu Jiang, Madison Le, Irfan Essa, Haifeng Gong, Ming-Hsuan Yang
- ICLR 2020 **Cross-Domain Few-Shot Classification via Learned Feature-Wise Transformation .**  
Hung-Yu Tseng, [Hsin-Ying Lee](#), Jia-Bin Huang, Ming-Hsuan Yang  
International Conference on Learning Representations, 2020
- IJCV 2019 **DRIT++: Diverse Image-to-Image Translation via Disentangled Representations.**  
[Hsin-Ying Lee\\*](#), 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, [Hsin-Ying Lee](#), 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\*, [Hsin-Ying Lee\\*](#), 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.**  
Hsin-Ying Lee\*, 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, Hsin-Ying Lee, Kai Wang, and Ming-Hsuan Yang,  
 European Conference on Computer Vision, 2018
- ICCV 2017 **Unsupervised Representation Learning by Sorting Sequence.**  
Hsin-Ying Lee, 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, Hsin-Ying Lee, 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, Hsin-Ying Lee, Bo-Qiao Lin, Yao-Wen Cheng,  
 Design Automation Conference, 2017
- CVPR 2016 **Soft-Segmentation Guided Object Motion Deblurring.**  
 Jinshan Pan, Zhe Hu, Hsin-Ying Lee, 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, Hsin-Ying Lee, Bo-Qiao Lin, Sheng-Wei Yang, Chin-Hao Chang, Szu-To Chen, Yao-Wen Chang  
 International Conference on Computer-Aided Design, 2015
- Communications Letters 2013 **Bio-inspired Proximity Discovery and Synchronization for D2D Communications.**  
 Shih-Lung Chao, Hsin-dYing Lee, Ching-Chun Chou, and Hung-Yu Wei  
 IEEE Communications Letters, Volume 17, Issue 12, Page 2300 - 2303, Dec. 2013

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## Research Experience

- May. 2019 - Present **Google Research, Mountain View, CA.**  
 Research Intern  
  - Mentor: Weilong Yang
  - Project: Content-Aware Design Generation
- Dec. 2018 - May. 2019 **Google Cloud AI, Sunnyvale, CA.**  
 Student Researcher  
  - Mentors: Lu Jiang, Ming-Hsuan Yang
  - Project: Sentence-to-Image Generation
- May. 2018 - Nov. 2018 **Nvidia Research, Santa Clara, CA.**  
 Research Intern  
  - Mentors: Xiaodon Yang, Ming-Yu Liu
  - Project: Music-to-Dance Generation
- May. 2017 - Aug. 2017 **Google Video Content Analysis, Mountain View.**  
 Intern  
  - Mentors: Min-Hsuan Tsai
  - Project: Video Preview Generation

Aug. 2016 – Present **Vision and Learning Lab, EECS, University of California, Merced.**

Research Assistant

- Mentor: Ming-Hsuan Yang
- Project: Unpaired Multimodal Image-to-Image Translation
- Project: Unsupervised Learning Using Videos
- Project: Audio Spatialization using video
- Project: Visual-Semantic Embedding for zero-shot learning
- Project: Object Motion Deblurring

May. 2013 - May. 2015 **Electronic Design Automation Lab, EE, National Taiwan University.**

Research Assistant

- Mentor: Yao-Wen Chang
- Project: Analytical Placement with Technology and Region Constraints
- Project: Dummy Fill Insertion with Multiple Criteria
- Project: Datapath Extraction For Logic Regularity

Sep. 2012 - Aug. 2013 **Wireless Mobile Networking Lab, EE, National Taiwan University.**

Undergraduate Intern

- Mentor: Hung-Yu Wei
- Project: Bio-inspired D2D Synchronization

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## Personal Activity

Internship **Content Creation** Google, Mountain View

Internship **Audio-Visual Modeling** Nvidia, Santa Clara

Internship **Video Preview/Highlights** Google, Mountain View

Invited Talk **Learning Visual-Semantic Embeddings with Structured Constraints**, Academia Sinica, Taiwan, Jan 2017

Invited Talk **Unsupervised Representation Learning by Sorting Sequences**, Academia Sinica, Taiwan, Dec 2017

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## Teaching Experience

Aug. 2016 – Present **EECS, University of California, Merced.**

- CSE 031 Introduction to Computer Science and Engineering (Spring 2016)
- CSE 020 Introduction to Computing [Java Programming] (Fall 2016)

Sep. 2012 **EE/CSIE, National Taiwan University, Taipei, Taiwan.**

- Freshmen Programming on HTML, jquery, python, FB app

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## Awards

Aug. 2016 **Chancellor's Graduate Fellowship**, University of California, Merced.

Aug. 2015 **USC-Taiwan Fellowship**, University of Southern California, LA.

Mar. 2015 **ISPD Blockage-Aware Detailed Routing-Driven Placement Contest**, International Symposium on Physical Design.

1st place in the international contest

Nov. 2014 **ICCAD Contest**, IEEE/ACM International Conference on Computer-Aided Design.

International: 4th place; Domestic: 1st place

May, 2014 **Graduation Ceremony Representative**, National Taiwan University, EE.

4th place graduation (4/198)

Aug. 2010 - Jun. 2014 **Presidential Award(3 times)**, National Taiwan University.  
Top 5% of students in one semester

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## Technical Skills

Programming C/C++, Python  
Toolbox / Software MATLAB, OpenCV, Caffe, Torch, pytorch, Tensorflow

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## References

- Ph.D. Advisor **Ming-Hsuan Yang**, *Associate Professor*, University of California, Merced.  
✉ [mhyang@ucmerced.edu](mailto:mhyang@ucmerced.edu) [f homepage](#)
- Research Mentor **Jia-Bin Huang**, *Assistant Professor*, Virginia Tech, Virginia.  
✉ [jbhuang@vt.edu](mailto:jbhuang@vt.edu) [f homepage](#)
- Research Mentor **Xiaodong Yang**, *Senior Research Scientist*, Nvidia Research.  
✉ [xiaodongy@nvidia.com](mailto:xiaodongy@nvidia.com) [f homepage](#)