

Yu-Ying Yeh

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Education	University of California San Diego , La Jolla, CA <i>Ph.D.</i> , Computer Science GPA: 3.91/4.00 Sep. 2018 - Jun. 2024
	National Taiwan University , Taipei, Taiwan <i>B.Sc.</i> , Physics and <i>B.A.</i> , Economics GPA: 3.80/4.30 Sep. 2010 - Jun. 2015
Research Interest	Computer Vision, Inverse Rendering, Generative AI for 3D Content Creation, Neural Rendering
Experience	Research Scientist Burlingame, CA • Computer Vision for Mixed and Virtual Reality Meta Reality Lab Jun. 2024 - Present
	Research Intern Redmond, WA Collaborators: Zhengqin Li, Zhao Dong, Jia-Bin Huang, Changil Kim, Thu Nguyen-Phuoc, Carl Marshall, Lei Xiao, Cheng Zhang, Numair Khan • Relightable Appearance Transfer for Objects and Indoor Scene. [1] Meta Reality Lab Jun. 2023 - Jan. 2024
	Research Intern Remote, CA Mentors: Ming-Yu Liu, Ting-Chun Wang, Koki Nagano, Sameh Khamis, Jan Kautz • Single Image Portrait Relighting. [2] NVIDIA Research Jun. 2021 - Sep. 2021
	Research Intern Remote, CA Mentors: Kalyan Sunkavalli, Milos Hasan, Yannick Hold-Geoffroy, Zexiang Xu • Material and Lighting Transfer for Indoor Scenes. [3] Adobe Research Jun. 2020 - Sep. 2020
	Graduate Student Researcher La Jolla, CA Advisor: Prof. Manmohan Chandraker • Material and Lighting Transfer for Indoor Scenes [3] • OpenRooms: Photorealistic Synthetic Indoor Scene Dataset [4] • Transparent Shape Reconstruction [5] University of California, San Diego Sep. 2018 - Present
Research Assistant Taipei, Taiwan Advisor: Prof. Yu-Chiang Frank Wang • Generative Model for Video Generation and Inference [6] • Cross-Domain Disentangled Representation Learning [7,8] Academia Sinica & NTU Oct. 2016 - Aug. 2018	
Honors / Awards	Google PhD Fellowship [CSE News] 2022 - 2024 Meta PhD Fellowship Finalist 2022 Qualcomm Innovative Fellowship Finalist 2022
Selected Publications	[1] Y.-Y. Yeh , J.-B. Huang, C. Kim, L. Xiao, T. Nguyen-Phuoc, N. Khan, C. Zhang, M. Chandraker, C. S Marshall, Z. Dong, Z. Li. TextureDreamer: Image-guided texture synthesis through Geometry-aware Diffusion, <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2024

- [2] **Y.-Y. Yeh**, K. Nagano, S. Khamis, J. Kautz, M.-Y. Liu, T.-C. Wang. Learning to Relight Portrait Images via a Virtual Light Stage and Synthetic-to-Real Adaptation., *ACM Transactions on Graphics (SIGGRAPH Asia)*, 2022 [3] **Y.-Y. Yeh**, Z. Li, Y. Hold-Geoffroy, R. Zhu, Z. Xu, M. Hasan, K. Sunkavalli, M. Chandraker. PhotoScene: Photorealistic Material and Lighting Transfer for Indoor Scenes., *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022
- [4] Z. Li, T.-Y. Yu, S. Sang, S. Wang, M. Song, Y. Liu, **Y.-Y. Yeh**, R. Zhu, N. Gundavarapu, J. Shi, S. Bi, Z. Xu, H.-X. Yu, K. Sunkavalli, M. Hasan, R. Ramamoorthi, M. Chandraker. OpenRooms: An Open Framework for Photorealistic Indoor Scene Datasets., *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021 (**Oral**)
- [5] **Y.-Y. Yeh***, Z. Li*, M. Chandraker. Through the Looking Glass: Neural 3D Reconstruction of Transparent Shapes., *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020. (**Oral**) (*equal contribution)
- [6] **Y.-Y. Yeh**, Y.-C. Liu, W.-C. Chiu, Y.-C. F. Wang. Static2Dynamic: Video Inference from a Deep Glimpse, *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2020
- [7] A. Liu, Y.-C. Liu, **Y.-Y. Yeh**, Y.-C. F. Wang. A Unified Feature Disentangler for Multi-Domain Image Translation and Manipulation, *Conference on Neural Information Processing Systems (NeurIPS)*, 2018
- [8] Y.-C. Liu, **Y.-Y. Yeh**, T.-C. Fu, S.-D. Wang, W.-C. Chiu, Y.-C. F. Wang. Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018 (**Spotlight**)

Teaching Experience

Teaching Assistant @ University of California San Diego	La Jolla, CA
<i>Intro to Computer Vision</i> , Prof. Hao Su	Jan. 2022 - Mar. 2022
<i>Advanced Computer Vision</i> , Prof. Manmohan Chandraker	Apr. 2021 - Jun. 2021
<i>Domain Adaptation in CV</i> , Prof. Manmohan Chandraker	Jan. 2020 - Mar. 2020
<i>Intro to Computer Vision</i> , Prof. David Kriegman	Apr. 2019 - Jun. 2019
<i>Intro to Computer Vision</i> , Prof. Manmohan Chandraker	Jan. 2019 - Mar. 2019

Academic Services

Reviewer: ICCV '19, AAAI '20, CVPR '20, ECCV '20, NeurIPS '20, ICLR '21, CVPR '21, ICCV'21, NeurIPS'21, CVPR'22, ECCV'22, NeurIPS'22, CVPR'23, IROS'23, ICCV'23, SIGGRAPH ASIA'23, CVPR'24, ECCV'24, SIGGRAPH ASIA'24, Computer Graphics Forum

Workshop Organizer: GeoNet @ ICCV23

Skills

Computer Languages: C, C++, Bash, Python, MATLAB, \LaTeX .

Toolbox/Software: PyTorch, TensorFlow, Maya, Blender.

Languages: Chinese Mandarin (Native), English (Fluent), Japanese (Basic).