

Yu-Ying Yeh

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Education	University of California San Diego , La Jolla, CA <i>Ph.D. student</i> , Computer Science and Engineering GPA: 3.91/4.00 Sep. 2018 - Present
	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
Research Experience	Research Intern Meta Reality Lab Redmond, WA Jun. 2023 - Present 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]
	Research Intern NVIDIA Research Remote, CA Jun. 2021 - Sep. 2021 Mentors: Ming-Yu Liu, Ting-Chun Wang, Koki Nagano, Sameh Khamis, Jan Kautz • Single Image Portrait Relighting. [2]
	Research Intern Adobe Research Remote, CA Jun. 2020 - Sep. 2020 Mentors: Kalyan Sunkavalli, Milos Hasan, Yannick Hold-Geoffroy, Zexiang Xu • Material and Lighting Transfer for Indoor Scenes. [3]
	Graduate Student Researcher University of California, San Diego La Jolla, CA Sep. 2018 - Present Advisor: Prof. Manmohan Chandraker • Material and Lighting Transfer for Indoor Scenes [3] • OpenRooms: Photorealistic Synthetic Indoor Scene Dataset [4] • Transparent Shape Reconstruction [5]
	Research Assistant Academia Sinica & NTU Taipei, Taiwan Oct. 2016 - Aug. 2018 Advisor: Prof. Yu-Chiang Frank Wang • Generative Model for Video Generation and Inference [6] • Cross-Domain Disentangled Representation Learning [7,8]
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>ArXiv</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., <i>ACM Transactions on Graphics (SIGGRAPH Asia)</i> , 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, Computer Graphics Forum

Workshop Organizer: GeoNet @ ICCV23

Skills

Computer Languages: C, C++, Bash, Python, MATLAB, L^AT_EX.

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

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