Yu-Ying Yeh

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Education

University of California San Diego, La Jolla, CA
Ph.D. student, Computer Science and Engineering — Sep. 2019 - Present
Master's student, Computer Science and Engineering — Sep. 2018 - Jun. 2019
GPA: 3.91/4.00

National Taiwan University, Taipei, Taiwan
B.Sc., Physics and *B.A.*, Economics — Sep. 2010 - Jun. 2015
GPA: 3.80/4.30

Research Interest

Computer Vision, Computer Graphics, 3D Content Creation for Augmented Reality
Scene Understanding, Domain Adaptation, Representation Learning

Selected Publications

[1] **Y.-Y. Yeh**, Z. Li, Y. Hold-Geoffroy, R. Zhu, Z. Xu, M. Hasan, K. Sunkavalli, M. Chandraker. PhotoScene: Material and Lighting Transfer for Indoor Scenes., *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022

[2] 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**)

[3] **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)

[4] **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

[5] 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

[6] 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)**

[7] Y.-J. Li, F.-E. Yang, Y.-C. Liu, **Y.-Y Yeh**, X. Du, Y.-C. F. Wang. Adaptation and Re-Identification Network: An Unsupervised Deep Transfer Learning Approach to Person Re-Identification, *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR workshops)*, 2018

Research Experience

Research Intern — NVIDIA Research
Jun. 2021 - Sep. 2021 — Remote, CA
Mentors: Ming-Yu Liu, Ting-Chun Wang, Koki Nagano, Sameh Khamis, Jan Kautz
• Single Image Portrait Relighting.

Research Intern — Adobe Research
Jun. 2020 - Sep. 2020 — Remote, CA
Mentors: Kalyan Sunkavalli, Milos Hasan, Yannick Hold-Geoffroy, Zexiang Xu
• Material and Lighting Transfer for Indoor Scenes. [1]

Graduate Student Researcher — University of California, San Diego
Sep. 2018 - Present — La Jolla, CA
Advisor: Prof. Manmohan Chandraker
- Material and Lighting Transfer for Indoor Scenes [1]
- OpenRooms: Photorealistic Synthetic Indoor Scene Dataset [2]
- Transparent Shape Reconstruction [3]

Research Assistant — Academia Sinica & NTU
Oct. 2016 - Aug. 2018 — Taipei, Taiwan
Advisor: Prof. Yu-Chiang Frank Wang
- Generative Model for Video Generation and Inference [4]
- Cross-Domain Disentangled Representation Learning [5,6]

Teaching Experience

Teaching Assistant — University of California, San Diego
Jan. 2022 - Mar. 2022 — La Jolla, CA
Instructor: Hao Su
Course: Intro to Computer Vision

Teaching Assistant — University of California, San Diego
Apr. 2021 - Jun. 2021 — La Jolla, CA
Instructor: Manmohan Chandraker
Course: Advanced Computer Vision

Teaching Assistant — University of California, San Diego
Jan. 2020 - Mar. 2020 — La Jolla, CA
Instructor: Manmohan Chandraker
Course: Domain Adaptation in Computer Vision

Teaching Assistant — University of California, San Diego
Apr. 2019 - Jun. 2019 — La Jolla, CA
Instructor: David Kriegman
Course: Intro to Computer Vision

Teaching Assistant — University of California, San Diego
Jan. 2019 - Mar. 2019 — La Jolla, CA
Instructor: Manmohan Chandraker
Course: Intro to Computer Vision

Honors / Awards

Google PhD Fellowship — *2022 Fall - Present*
Meta PhD Fellowship Finalist — *2022*

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, Computer Graphics Forum

Skills

Computer Languages: C, C++, Bash, Python, MATLAB, LaTeX.
Toolbox/Software: PyTorch, TensorFlow, Maya, Blender.
Languages: Chinese Mandarin (Native), English (Fluent), Japanese (Basic).