Wenyan Cong

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RESEARCH INTERESTS

Computer Vision:

• 3D Vision, Computational Photography

Machine Learning:

• Generative Models, Large Language Models

EDUCATION

The University of Texas at Austin	Aug. 2022 - Present
Ph.D. Student, Electrical and Computer Engineering	Advisor: Prof. Zhangyang (Atlas) Wang
Shanghai Jiao Tong University	Sep. 2019 - Mar. 2022
M.S., Computer Science and Engineering	Advisor: Prof. Li Niu and Prof. Liqing Zhang
Graduate with highest honor	
Shanghai Jiao Tong University	Sep. 2015 - Jun. 2019
B.Eng., Computer Science and Engineering	
PROFESSIONAL EXPERIENCE	
Snap Inc.	May. 2023 - Present
Research Intern, Supervisor: Dr. Jian Wang	
Topic: High-quality video frame interpolation in pose	domain.
ZMO.AI	Jan. 2021 - Apr. 2021
Research Intern	
Topic: Real-time background replacement and harmonization for on-model images.	
Hisense Group Holdings Co., Ltd.	Dec. 2020 - May 2021
Research Intern	
Topic: Real-time high-resolution harmonization on vi	rtual household devices.
Shanghai Jiao Tong University	Dec. 2018 - Mar. 2022
Research Assistant, Advisor: Prof. Li Niu and Prof.	Liqing Zhang
Topic: Image harmonization and video harmonization	1.
DUDICATIONS	

PUBLICATIONS

(Marker * denotes equal-contribution first authorship.)

Wenyan Cong^{*}, Hanxue Liang^{*}, Peihao Wang, Zhiwen Fan, Tianlong Chen, Mukund Varma, Yi Wang, and Zhangyang Wang, "Enhancing NeRF akin to Enhancing LLMs: Generalizable NeRF Transformer with Mixture-of-View-Experts", IEEE International Conference on Computer Vision (ICCV), 2023. [link]

Li Niu, Junyan Cao, Wenyan Cong, and Liqing Zhang, "Deep Image Harmonization with Learnable Augmentation", IEEE International Conference on Computer Vision (ICCV), 2023. [link]

Junyan Cao^{*}, Wenyan Cong^{*}, Li Niu, Jianfu Zhang, and Liqing Zhang, "Deep Image Harmonization by Bridging the Reality Gap", The 33rd British Machine Vision Conference (BMVC), 2022. [link]

Xinyuan Lu, Shengyuan Huang, Li Niu, **Wenyan Cong**, and Liqing Zhang, "Deep Video Harmonization With Color Mapping Consistency", 31st International Joint Conference on Artificial Intelligence (IJCAI), 2022. [link]

Wenyan Cong, Xinhao Tao, Li Niu, Jing Liang, Xuesong Gao, Qihao Sun, and Liqing Zhang, "High-Resolution Image Harmonization via Collaborative Dual Transformations", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022. [link]

Xinyuan Lu, Shengyuan Huang, Li Niu, Wenyan Cong, and Liqing Zhang, "HYouTube: Video Harmonization Dataset", arXiv, 2021. [link]

Li Niu, Wenyan Cong, Liu Liu, Yan Hong, Bo Zhang, Jing Liang, and Liqing Zhang, "Making Images Real Again: A Comprehensive Survey on Deep Image Composition", arXiv, 2021. [link]

Wenyan Cong, Li Niu, Jianfu Zhang, Jing Liang, and Liqing Zhang, "BargainNet: Background-Guided Domain Translation for Image Harmonization", International Conference on Multimedia and Expo (ICME), 2021. Oral. [link]

Wenyan Cong, Jianfu Zhang, Li Niu, Liu Liu, Zhixin Ling, Weiyuan Li, and Liqing Zhang, "DoveNet: Deep Image Harmonization via Domain Verification", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.[link]

Wenyan Cong, Jianfu Zhang, Li Niu, Liu Liu, Zhixin Ling, Weiyuan Li, and Liqing Zhang, "Image Harmonization Datasets: HCOCO, HAdobe5k, HFlickr, and Hday2night", arXiv, 2019. [link]

HONORS

UT Austin Cockrell Engineering Fellowship	2022
Shanghai Outstanding Graduate	2022
Academic Excellence Scholarship of Shanghai Jiao Tong University	2021
National Scholarship for Graduate Students (Top 0.2% Nationwide)	2020
Merit Student of Shanghai Jiao Tong University	2020
Excellent League Cadre of Shanghai Jiao Tong University	2019
Second Prize in "HUAWEI Cup" China Post-Graduate Mathematical Contest in Modeling	2019
Outstanding Graduate of Shanghai Jiao Tong University	2019

PATENTS

"Real Human Harmonization in Virtual Scenes", China Patent, No. 202111051553.6., 2021.

"High-Resolution Image Harmonization via 3D Look-Up Tables", China Patent, No. 202111051117.9., 2021.

"Progressive High-Resolution Image Harmonization", China Patent, No. 202111050230.5., 2021.

TEACHING

ECE 379K - Introduction to Computer Vision (Fall 2022): Teaching assistant, Univ. of Texas at Austin CS245 - Principles of Data Science (Spring 2021): Teaching assistant, Shanghai Jiao Tong University CS7335 - Statistical Learning and Inference (Fall 2020): Teaching assistant, Shanghai Jiao Tong University CS245 - Principles of Data Science (Spring 2020): Teaching assistant, Shanghai Jiao Tong University

SERVICES

Conference Reviewer: IJCAI-21, CVPR-22, ICCV-22, ECCV-22, ICCV-23, Neurips-23, WACV-23

SKILLS

- Programming: Python, C++, Git, Bash, SQL, MATLAB
- Packages: PyTorch, TensorFlow, OpenCV