

# YIFAN JIANG

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## EDUCATION

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**The University of Texas at Austin**, Austin, USA 2020 – Present

*Ph.D.* in Electrical and Computer Engineering

Advisor: Prof. Zhangyang (Atlas) Wang

Research Interests: Computational Photography, Generative Models, AutoML

**Texas A&M University**, College Station, USA 2019 – 2020

*Ph.D.* in Computer Science (Transferred)

**Huazhong University of Science and Technology**, Wuhan, China 2015 – 2019

*B.E.* in Electronic Information Engineering

## PUBLICATION

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(\* indicates equal contribution)

1. **Yifan Jiang\***, Dejie Xu\*, Peihao Wang, Zhiwen Fan, Humphrey Shi, and Zhangyang Wang. “SinNeRF: Training Neural Radiance Fields on Complex Scenes from a Single Image”, European Conference on Computer Vision (ECCV) 2022.
2. **Yifan Jiang\***, Zhiwen Fan\*, Peihao Wang\*, Xinyu Gong, Dejie Xu, and Zhangyang Wang. “Unified Implicit Neural Stylization”, European Conference on Computer Vision (ECCV) 2022.
3. **Yifan Jiang**, Bartłomiej Wronski, Ben Mildenhall, Jonathan T. Barron, Zhangyang Wang, and Tianfan Xue. “Fast and High-Quality Image Denoising via Malleable Convolutions”, European Conference on Computer Vision (ECCV) 2022.
4. **Yifan Jiang**, Xinyu Gong, Junru Wu, Honghui Shi, Zhicheng Yan, and Zhangyang Wang, “AutoX3D: Searching Ultra-Efficient Architecture for Video Understanding”, Winter Conference on Applications of Computer Vision (WACV) 2022.
5. **Yifan Jiang**, Shiyu Chang, and Zhangyang Wang, “TransGAN: Two Pure Transformers can Make One Strong GAN and That Can Scale Up”, Advances in Neural Information Processing Systems (**NeurIPS**), 2021.
6. **Yifan Jiang**, Zhang He, Jianming Zhang, Yilin Wang, Zhe Lin, Kalyan Sunkavalli, Simon Chen, Sohrab Amirghodsi, Sarah Kong, and Zhangyang Wang, “SSH: A Self-supervised Framework for Image Harmonization”, International Conference on Computer Vision (**ICCV**), 2021.
7. **Yifan Jiang**, Xinyu Gong, Ding Liu, Yu Cheng, Chen Fang, Xiaohui Shen, Jianchao Yang, Pan Zhou, Zhangyang Wang, “EnlightenGAN: Deep Light Enhancement without Paired Supervision”, Transaction on Image Processing (**TIP**)
8. Dejie Xu, Hayk Poghosyan, Shant Navasardyan, **Yifan Jiang**, Humphrey Shi, Zhangyang Wang, “ReCoRo: Region-Controllable Robust Light Enhancement by User-Specified Imprecise Masks”, ACM Multimedia (**MM**), 2022
9. Zeyuan Chen, **Yifan Jiang**, Dong Liu, Zhangyang Wang, “CERL: A Unified Optimization Framework for Light Enhancement with Realistic Noise”, Transaction on Image Processing (**TIP**)
10. Bowen Pan, Rameswar Panda, **Yifan Jiang**, Zhangyang Wang, Rogerio Feris, and Aude Oliva, “IA-RED2: Interpretability Aware Redundancy Reduction for Vision Transformers”, Advances in Neural Information Processing Systems (**NeurIPS**), 2021.
11. Yonggan Fu, Zhongzhi Yu, Yongan Zhang, **Yifan Jiang**, Chaojian Li, Yongyuan Liang, Mingchao Jiang, Zhangyang Wang, and Yingyan Lin, “InstantNet: Automated Generation and Deployment of Instantaneously Switchable Precision Networks”, Design Automation Conference (**DAC**), 2021.
12. Tianjian Meng\*, Xiaohan Chen\*, **Yifan Jiang**, and Zhangyang Wang, “A Design Space Study for LISTA and Beyond”, International Conference on Learning Representations (**ICLR**), 2021.
13. Xinyu Gong, Shiyu Chang, **Yifan Jiang**, and Zhangyang Wang. “AutoGAN: Neural Architecture Search for Generative Adversarial Networks”, International Conference on Computer Vision (**ICCV**), 2019.

## RESEARCH EXPERIENCE

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**Adobe**, San Jose, USA

May. 2022 – Present

Research Intern with [Marc Levoy's Team](#), Adviser: [Dr. Zhihao Xia](#), [Dr. Cecilia Zhang](#), [Dr. Jiawen Chen](#).

- Working on monocular video depth estimation

**Google Research**, Mountain View, USA

May. 2021 – May. 2022

Research Intern with [GCam](#), Adviser: [Dr. Tianfan Xue](#), [Bart Wongski](#), [Dr. Ben Mildenhall](#), [Dr. Jon Barron](#).

- Developed a fast denoising network by predicting spatially-varying kernels at low resolution and using a fast fused op to jointly upsample and apply these kernels at full resolution. The resultant paper was accepted by ECCV'2022

**Adobe**, San Jose, USA

May. 2020 – Nov. 2020

Research Intern with [Applied Research Team\(ART\)](#), Adviser: [Dr. He Zhang](#) and [Dr. Jianming Zhang](#).

- Developed a self-supervised method for image harmonization that does not require human annotation labels. The resultant paper was accepted by ICCV'2021

**Bytedance AI Lab**, Beijing, China

Jan. 2019 – Aug. 2019

Research Intern with [US CV Lab](#), Adviser: [Dr. Jianchao Yang](#) and [Dr. Xiaohui Shen](#) and [Dr. Ding Liu](#).

- Designed a jointly image denoising and low-light enhancement algorithm, which will appear in beauty selfie camera app [FaceU](#)

**The University of Texas at Austin**, Austin, TX

July. 2020 – Present

Research Assistant, Working with [Prof. Zhangyang \(Atlas\) Wang](#)

**Huazhong University of Science and Technology**, Wuhan, China

May. 2017 – June. 2018

Research Assistant with [Prof. Pan Zhou](#), Collaborated with [Dr. Yu Cheng](#) ([Microsoft](#))

- Designed Pedestrian-Synthesis GAN with a group member, which can generate labeled pedestrian data to support the training of pedestrian detectors such as FastRCNN, SSD, YOLO.

## COMMUNITY SERVICES

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- Reviewer for: CVPR'2021-2022, ICCV'2021, ECCV'2022, ICML'2022, NeurIPS'2022, ICLR'2023, Siggraph Asia'2022 Siggraph'2022, WACV'2022, Transaction on Image Processing (TIP), International Journal of Computer Vision (IJCV), NeuroComputing
- Workshop Organizer for: [ECCV RLQ-TOD Workshop 2020](#)

## INVITED TALKS

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- "Fast and High-Quality Image Denoising via Malleable Convolutions" at Adobe Marc Levoy's team.
- "TransGAN: Two Transformers Can Make One Strong GAN" at [\[cai-workshop\]](#), [\[SHI Lab @University of Oregon\]](#)

## MEDIA HIGHLIGHT

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- TransGAN was covered by [Quanta Magazine](#) and was highlighted by high-profile [Tech bloggers](#), as well as considered as [the most influential new paper of the month](#) (Feb 2021).