

XIAODONG CUN

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WORK INFORMATION

Senior Researcher, **Tencent AI Lab**

Sep. 2021 - Now

EDUCATION

Ph.D, Computer Science, **University of Macau**

Aug. 2018 - Jun. 2021

M.S, Computer Science, **University of Macau**

Aug. 2015 - Jun. 2018

B.S, Computer Science, **Xidian University**

Sep. 2011 - Jun. 2015

PUBLICATIONS

CoordFill: Efficient High-Resolution Image Inpainting via Parameterized Coordinate Querying.

Weihuang Liu, **Xiaodong Cun**[#], Chi-Man Pun[#], Menghan Xia, Yong Zhang, and Jue Wang. In *Thirty-Seven AAAI Conference on Artificial Intelligence (AAAI)*, 2023. (Corresponding Author)

[VideoReTalking: Audio-based Lip Synchronization for Talking Head Video Editing In the Wild.](#)

Kun Cheng^{*}, **Xiaodong Cun**^{*}, Yong Zhang, Menghan Xia, Fei Yin, Mingrui Zhu, Xuan Wang, Jue Wang, and Nannan Wang. In *SIGGRAPH Asia (Conference Track)*, 2022. (Joint First Author & Corresponding Author).

[StyleHEAT: One-Shot High-Resolution Editable Talking Face Generation via Pretrained StyleGAN](#)

Fei Yin, Yong Zhang, **Xiaodong Cun**, Mingdeng Cao, Yanbo Fan, Xuan Wang, Qingyan Bai, Baoyuan Wu, Jue Wang, Yujiu Yang. In *European Conference on Computer Vision (ECCV)*, 2022.

[Spatial-Separated Curve Rendering Network for Efficient and High-Resolution Image Harmonization.](#)

Jingtang Liang^{*}, **Xiaodong Cun**^{*}, Chi-Man Pun and Jue Wang. In *European Conference on Computer Vision (ECCV)*, 2022. (Joint First Author).

[Uformer: A General U-Shaped Transformer for Image Restoration.](#)

Zhendong Wang, **Xiaodong Cun**[#], Jianmin Bao and Jianzhuang Liu, Wengang Zhou, Houqiang Li. In *Computer Vision and Pattern Recognition (CVPR)*, 2022. (Corresponding Author).

[Split then Refine: Sequential Attention-guided ResUNets for Blind Single Image Visible Watermark Removal](#)

Xiaodong Cun and Chi-Man Pun. In *Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI)*, 2021.

[Defocus Blur Detection via Depth Distillation.](#)

Xiaodong Cun and Chi-Man Pun. In *European Conference on Computer Vision (ECCV)*, 2020.

[Towards Ghost-free Shadow Removal via Dual Hierarchical Aggregation Network and Shadow Matting GAN.](#)

Xiaodong Cun, Chi-Man Pun and Cheng Shi. In *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020.

[Improving the Harmony of the Composite Image by Spatial-Separated Attention Module.](#)

Xiaodong Cun and Chi-Man Pun. *IEEE Transactions on Image Processing (TIP)*, vol. 29, 2020.

[Image Splicing Localization via Semi-Global Network and Fully Connected Conditional Random Fields.](#)

Xiaodong Cun and Chi-Man Pun. In *Proceedings of the European Conference on Computer Vision Workshop*, 2018.

[Depth Assisted Full Resolution Network for Single Image based View Synthesis.](#)

Xiaodong Cun, Feng Xu, Chi-Man Pun and Hao Gao. In *SIGGRAPH 2018 Poster Session & IEEE Computer Graphics and Application*, vol. 39, 2018.

Applying stochastic second-order entropy images to multi-modal image registration.
Xiaodong Cun, Chi-Man Pun and Hao Gao. *Signal Processing: Image Communication*, vol. 65, 2018.

PREPRINT PAPERS

DH-GAN: Image Manipulation Localization via a Dual Homology-aware Generative Adversarial Network.
Wei Huang Liu*, **Xiaodong Cun*** and Chi-Man Pun. *Journal submission, Under Review. (Joint First Author)*.

Learning Enriched Illuminants for Cross and Single Sensor Color Constancy.
Xiaodong Cun, Zhendong Wang, Chi-Man Pun, Jianzhuang Liu and Xu Jia. *Journal submission, Under Review*.

EXPERIENCES

Research Assistant, IPPR Lab, University of Macau *Apr. 2016 - Jun. 2021*
Supervised by [Dr. Chi-Man Pun](#)
Developing learning-based algorithms in computational photography and low-level vision fields.

Research Intern, Computer Vision Lab, Huawei Noah's Ark Lab *Mar. 2020 - Nov. 2020*
Supervised by [Dr. Jianzhuang Liu](#)
Focusing on the learning-based algorithms for Image Signal Processor (ISP).

Algorithm Intern, Computer Vision Lab, HIKVision Research Institute *Mar. 2018 - Aug. 2018*
Short internship on network slimming.

Front-end Software Intern, Alibaba Inc. *Jun. 2014 - Sep. 2014*

TEACHING EXPERIENCE

Teaching Assistant, Faculty of Science and Technology, **University of Macau**

* Computer Graphics 2016-2017

* Computer Science (Programming) 2017-2018

SKILLS

Languages: Python, Matlab, JavaScript, C

Framework: PyTorch, TensorFlow, Torch

Tools: PhotoShop, Illustrator, \LaTeX