Yitong Jiang

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Education

2023 – 2026	🔖	**Ph.D. in Computer Science, The Chinese University of Hong Kong (CUHK)** Supervised by Prof. Jinwei Gu and Prof. Tianfan Xue.
2016 – 2021	🔖	**B.S. in Computer Science, Elite Stream, The Chinese University of Hong Kong (CUHK)** Graduated with First Honors.

Employment History

2024 – 2025	🔖	**NVIDIA Research**	*Research Intern*
		Mentor and Collaborator: Dr. Sifei Liu, Dr. Hongxu Yin, and Dr. Pavlo Molchanov Topic: High-resolution Vision-Language Model and Efficient Vision Encoder.	
2021 – 2022	🔖	**Centre for Perceptual and Interactive Intelligence (CPII)**	*Researcher*
		Topic: Contribute to OpenMMLab MMdetection project (31.6k Star).	
2019 – 2020	🔖	**SenseBrain Group Limited**	*Research Intern*
		Mentor: Prof. Jinwei Gu and Dr. Inchang Choi Topic: High Dynamic Range camera algorithm.	

Research Publications

1. **Yitong, Jiang**, C. McCarthy, H. Wang, *et al.*, "Scaling Parallel Sequence Models to Vision Foundation Models," In submission, 2025.

2. **Yitong, Jiang**, G. Jinwei, X. Tianfan, *et al.*, "Token-Efficient VLM: High-Resolution Image Understanding via Dynamic Region Proposal," in *ICCV*, **(Highlight)**, 2025.

3. **Yitong, Jiang***, Z. Zhang*, T. Xue, and J. Gu, "AutoDIR: Automatic All-in-One Image Restoration with Latent Diffusion," in *ECCV*, 2024.

4. **Yitong, Jiang***, Z. Zhang*, J. Jiang, X. Wang, P. Luo, and J. Gu, "Real-time Controllable Denoising for Image and Video," in *CVPR*, 2023.

5. H. Wang, **Yitong, Jiang**, D. Wehr, *et al.*, "GSPN-2: Efficient Parallel Sequence Modeling," NeurIPS, 2025.

6. K. Liu, **Yitong, Jiang**, I. Choi, and J. Gu, "Learning Image-Adaptive Codebooks for Class-Agnostic Image Restoration," in *ICCV*, 2023.

7. Z. Zhang, **Yitong, Jiang**, J. Jiang, X. Wang, P. Luo, and J. Gu, "STAR: A Semantic-aware Transformer for Real-time Image Enhancement," in *ICCV*, 2021.

8. X. Hu, T. Wang, C.-W. Fu, **Yitong, Jiang**, Q. Wang, and P.-A. Heng, "Revisiting shadow detection: A new benchmark dataset for complex world," in *TIP*, 2021.

9. X. Hu, **Yitong, Jiang**, C.-W. Fu, and P.-A. Heng, "Mask-ShadowGAN: Learning to remove shadows from unpaired data," in *ICCV*, 2019.

10. **Yitong, Jiang**, I. Choi, and J. Gu, "HDR Video Reconstruction for Tri-Exposure Quad-Bayer," in *arxiv*, 2024.

Awards

2017 – 2019	🔖	**Computer Science Scholarship**
2016 – 2018	🔖	**Scholarship of Elite Stream Student**
2016 – 2019	🔖	**Dean's List**