Minguk Kang

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EDUCATION	POSTECH , Pohang, Republic of Korea		
	 Ph.D in Graduate School of AI 	Feb 2020 – Present	
	 Interest: One-step Image Synthesis Models, such as GANs and Consistency Models GPA: 4.11/4.30 		
	Pusan National University, Busan, Republic of Korea		
	 B.S. in Engineering 	Mar 2013 – Aug 2019	
	 Major: Mechanical Engineering, Minor: Statistics Summa Cum Laude (graduated at the top of college of engineering, 1/394) 		
RESEARCH EXPERIENCE	Adobe Research Creative Intelligence Lab, Remote work at Korea & San Francisco		
	 Research Intern 	Jul 2022 – Present	
	• Mentors: Taesung Park, Connelly Barnes, Eli Shechtman, Jun-Yan Zhu, Richard Zhang, Sylvain Paris		
	Computer Vision Laboratory, Pohang, Republic of Korea		
	Graduate Student	Feb 2020 – Present	
	Adviser: Professors Suha Kwak (2023-current) & Jaesik Park (2020-2023)		
	Vision and Intelligent System Laboratory, Pusan National University		
	 Undergraduate Research Student 	Aug 2017 – Jan 2020	
	Adviser: Professor Dongjoong Kang	C C	
PUBLICATIONS	CONFERENCES		
	[C8] Seoyeon Kim, Minguk Kang, and Jaesik Park, "RISCLIP: Referring Framework using CLIP", Under submission, 2023.	ng Image Segmentation	
	[C7] Joonghyuk Shin, Minguk Kang, and Jaesik Park, "Fill-Up: Balancing Generative Models", Under submission, 2023.	g Long-Tailed Data with	
	[C6] Tony Lee, Michihiro Yasunaga, Chenlin Meng, Yifan Mai, Joon Su	ıng Park, Agrim Gupta,	

- Yunzhi Zhang, Deepak Narayanan, Hannah Benita Teufel, Marco Bellagente, Minguk Kang, Taesung Park, Jure Leskovec, Jun-Yan Zhu, Li Fei-Fei, Jiajun Wu, Stefano Ermon, and Percy Liang, "Holistic Evaluation of Text-to-Image Models", In *International Conference on Neural Information Processing Systems (NeurIPS), Datasets and Benchmarks Track*, Spotlight, 2023.
- [C5] Minguk Kang, Jun-Yan Zhu, Richard Zhang, Jaesik Park, Eli Shechtman, Sylvain Paris, and Taesung Park, "Scaling up GANs for Text-to-Image Synthesis", In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Highlight, 2023.
- [C4] Jinoh Cho, Minguk Kang, Vibhav Vineet, and Jaesik Park, "Context-Aware Image Completion", AI for Content Creation (AI4CC) CVPR workshop, 2023.
- [C3] Minguk Kang, Woohyeon Shim, Minsu Cho, and Jaesik Park, "Rebooting ACGAN: Auxiliary Classifier GANs with Stable Training", In International Conference on Neural Information Processing Systems (NeurIPS), 2021.
- [C2] Minguk Kang and Jaesik Park, "ContraGAN: Contrastive Learning for Conditional Image Generation", In International Conference on Neural Information Processing Systems (NeurlPS), 2020.
- [C1] Minguk Kang, Honghyun Kim, and Dongjoong Kang, "Finding a High Accuracy Neural Network for the Welding Defects Classification Using Efficient Neural Architecture Search via Parameter Sharing", In International Conference on Control Automation and Systems (ICCAS), IEEE, 2018, pp. 402-405.

JOURNALS

	 [J2] Minguk Kang, Joonghyuk Shin, and Jaesik Park, "StudioGAN: A Taxonomy and Benchmark of GANs for Image Synthesis", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)</i>, 2023. [J1] Hyojung Ahn, Hanlim Choi, Minguk Kang, and Sungtae Moon, "Learning-Based Anomaly Detection and Monitoring for Swarm Drone Flights", <i>Applied Science</i>, 2019, 9, 5477. 		
OPEN SOURCE	PyTorch StudioGAN (★3300+)		
	• Pytorch library providing implementations of representative Generative Adversarial Networks (GANs).		
AWARDS & SCHOLARSHIP	1st Prize, BK21 outstanding paper awards, POSTECH Graduate School of AI, January 2022		
	Qualcomm Innovation Fellowship Korea, Qualcomm, November 2021		
	Silver Prize, 16th Samsung Electro-Mechanics Paper Awards, 2020		
	National Science and Engineering Scholarship, Korea Student Aid Foundation		
	 Received full scholarship for 8 semesters. Mar 2013 – Aug 2019 		
TALKS	Tech Talk:		
	 Scaling up GANs for Text-to-Image Synthesis, Kakao Brain, NAVER, LG AI Research, and Samsung Research, 2023. 		
	 Demystifying the Instability in ACGAN and Providing Large-scale GAN Benchmark for Fair Evaluation, UNIST, 2022. 		
	 Rebooting ACGAN: Auxiliary Classifier GANs with Stable Training, NAVER and EIRIC. 		
ACADEMIC SERVICES	Reviewer		
	 Conference Reviewer 2023: ICML, ICCV, NeurIPS Journal Reviewer 2022: IJCV 		
	 Conference Reviewer 2022: ICLR, CVPR, ECCV, NeurIPS 		
PROFICIENCIES	General Skill		
	 Language: Korean (Native), English (Conversational) 		

• Machine Learning Library: TensorFlow (Advanced), PyTorch (Advanced)