

Minguk Kang

mkgang@postech.ac.kr | [Homepage](#) | [Google Scholar](#) | [GitHub](#)
Chungam-Ro 77, POSTECH, Pohang-Si, Republic of Korea (37673)

EDUCATION

POSTECH, Pohang, Republic of Korea

- M.S. in Graduate School of AI Feb 2020 – Present
 - Interest: Contrastive Learning, Generative Adversarial Networks
 - 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 South Korea

- Research Intern Jul 2022 – Present
 - Advisers: Dr. Taesung Park and Dr. Sylvain Paris

Computer Vision Laboratory, Pohang, Republic of Korea

- Graduate Student Feb 2020 – Present
 - Adviser: Professor Jaesik Park

Vision and Intelligent System Laboratory, Pusan National University

- Undergraduate Research Student Aug 2017 – Jan 2020
 - Adviser: Professor Dongjoong Kang

PUBLICATIONS

CONFERENCES

- [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] Jino Cho, [Minguk Kang](#), Vibhav Vineet, and Jaesik Park, “Context-Aware Image Completion”, Under submission, 2022.
- [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 (NeurIPS)*, 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”, *arXiv:2206.09479*, 2022.
- [J1] Hyojung Ahn, Hanlim Choi, [Minguk Kang](#), and Sungtae Moon, “Learning-Based Anomaly Detection and Monitoring for Swarm Drone Flights”, *Applied Science*, 2019, 9, 5477.

OPEN SOURCE

PyTorch StudioGAN (★3100+)

- 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, and LG AI 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)