

# Joonghyuk Shin

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## EDUCATION

### Seoul National University, Seoul, Republic of Korea

- Combined M.S. and Ph.D. in Dept. of Computer Science and Engineering Sep 2023 – Present
  - Adviser: Professor Jaesik Park
  - Interest: Generative modeling and its applications (Diffusion, GAN)

### POSTECH, Pohang, Republic of Korea

- M.S. in Dept. of Computer Science and Engineering Feb 2023 – Aug 2023
  - Computer Vision Laboratory, Adviser: Professor Jaesik Park
  - Interest: Generative Models (Diffusion, GAN), Long-tailed Recognition
- B.S. in Dept. of Computer Science and Engineering Feb 2019 – Feb 2023
  - Adviser: Professor Jaesik Park
  - Summa Cum Laude (GPA: 3.97/4.3)

### Korean Minjok Leadership Academy, Hoengseong, Republic of Korea

- High School Feb 2016 – Feb 2019

## RESEARCH PROJECTS

### Computer Vision Laboratory, Pohang, Republic of Korea

- Fill-Up project Sep 2022 – Jun 2023
  - Proposed a framework to balance long-tailed data with generative models
  - Worked with Minguk Kang and Jaesik Park
- StudioGAN project Jun 2021 – Apr 2023
  - Built StudioGAN platform for reproducible and fair evaluation of GANs
  - Worked with Minguk Kang and Jaesik Park
  - Received 3200+ GitHub stars

### POSTECH, Pohang, Republic of Korea

- Graduation Project (I, II) Sep 2021 – Dec 2022
  - Large scale generative model as a data source for vision tasks (II)
  - Improving GAN training via techniques used in representation and metric learning (I)
  - Project II selected as Best Graduation Project of POSTECH CSE 2022
- Neural Point Cloud Rendering of POSTECH Apr 2020 – Dec 2020
  - Built large point cloud data of POSTECH via drone mapping and applied neural rendering
  - Participated as team leader and advised by Professor Jaesik Park
  - Selected as Best Undergraduate Research Program of POSTECH 2020

## PUBLICATIONS

### INTERNATIONAL

- [2] [Joonghyuk Shin](#), [Minguk Kang](#), [Jaesik Park](#), “Fill-Up: Balancing Long-Tailed Data with Generative Models”, Under Review, 2023.
- [1] [Minguk Kang](#), [Joonghyuk Shin](#), and [Jaesik Park](#), “StudioGAN: A Taxonomy and Benchmark of GANs for Image Synthesis”, Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023.

### DOMESTIC

- [1] [Joonghyuk Shin](#), [Minguk Kang](#), [Jaesik Park](#), “Using Large Scale Text-to-Image Model as a Data Source for Classification”, 35th Workshop on Image Processing and Image Understanding (IPIU), 2023.

## OPEN SOURCE

### PyTorch StudioGAN (★3100+)

- Pytorch library providing implementations of representative Generative Adversarial Networks (GANs).

**AWARDS &  
SCHOLARSHIP**

**Award for Outstanding Poster Presentation, IPIU (2023)**

- Awarded to paper “Using Large Scale Text-to-Image Model as a Data Source for Classification”

**Summa Cum Laude, POSTECH (2023)**

**National Science and Engineering Scholarship, Korea Student Aid Foundation (2021, 2022)**

**Best Graduation Project, POSTECH CSE (2022)**

- Awarded to project “Large scale generative model as a data source for vision tasks”

**Silver Award UNI-DTHON Datathon, UNI-D (Union of Korean University Student for CS) (2021)**

- Competition on classifying food images

**Global Leadership Program, POSTECH CSE (2020, 2021)**

- Scholarship for academic excellence

**Best Undergraduate Research Program, POSTECH (2020)**

- Awarded to project “Neural Point Cloud Rendering of POSTECH”

**Jigok Scholarship, POSTECH (2019, 2020)**

**PROFICIENCIES**

**General Skill**

- Language: Korean (Native), English (Native)
- Programming Languages: Python, C, C++ (advanced)    Java,  $\LaTeX$ , MySQL, HTML5, CSS (familiar)
- Frameworks & Libraries: Git, PyTorch (advanced)    Tensorflow, JAX (familiar)