Daehyeon Choi

https://github.com/choidaedae   https://choidaedae.github.io
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EDUCATION

Seoul National University	Mar 2024 - Jun 2024
(Exchange Student) Dept. of Electronic & Computer Engineering	
Pohang University of Science and Technology (POSTECH)	Feb 2021 - Current
B.E. Dept. of Computer Science & Engineering	*Current GPA: 3.88/4.3*
Jeounbuk Science High School	Mar 2019 - Feb 2021
Information Science Diploma	*2-Years Early Graduation*

INTERESTS

Generative Model, Image Editing, Text-to-Image Synthesis

RELEVANT COURSES

Mathematics

Calculus, Applied Linear Algebra, Probability & Statistics, Differential Equations, Discrete Mathematics

CS

Programming & Problem Solving, Object-Oriented Programming, Data structure, Digital Systems, Computer Systems, Computer Architecture, Operating System, Algorithm

Computer Vision

Artificial Intelligence, Advanced Linear Algebra, Deep Learning, Computer Vision, Signal Processing, Computer Graphics

PUBLICATIONS

[1] Joonghyuk Shin, **Daehyeon Choi**, Jaesik Park
InstantDrag: Improving Interactivity in Drag-based Image Editing
ACM SIGGRAPH Asia 2024, Sep 2024.

EXPERIENCES

Computer Graphics Lab, POSTECH | *Undergraduate Researcher* — Sep 2024 – Current
(Graduate Research Project II) 3D-aware Image Editing with Adaptive Depth Guidance
Under the supervision by Prof. Sunghyun Cho

Visual AI Group, KAIST | *Undergraduate Researcher* — Jul 2024 – Aug 2024
3D-aware Image Editing with Learning 6-DoF Representations.
Presented paper reviews in lab schedules (Paper Digest Meeting, Weekly Meeting).
Under the supervision by Prof. Minhyuk Sung

GenGenAI | *Research Intern* — Jun 2024 – Aug 2024
Verify and analyze synthetic-data based training (In multi-class classification task).
Generate synthetic data in specific case.

Visual & Geometric Intelligence Lab, SNU | *Undergraduate Researcher* — Sep 2023 – Jun 2024
Participated in **InstantDrag Project** (Accepted to SIGGRAPH Asia 2024, as a 2nd author).
Organized & Managed Generative Model Study with undergraduate interns.
Under the supervision by Prof. Jaesik Park

Medical Imaging & Vision Lab, POSTECH | *Undergraduate Researcher*   Sep 2023 – Dec 2023
(Graduate Research Project I) Wavelet Diffusion Model, Medical Image Segmentation
Under the supervision by Prof. Wonhwa Kim

Meissa Planet | *Research Team, AI Research Intern*   Jun 2023 – Sep 2023
Researched Diffusion Models in Remote Sensing domain.
Developed Diffusion based Semantic Change Detection Model.

Computer Vision Lab, POSTECH | *Undergraduate Researcher*   Sep 2022 – Feb 2023
Studied GAN (Generative Adversarial Networks).
Under the supervision by Prof. Jaesik Park

AWARDS & SCHOLARSHIPS

In Jae Rim Scholarships | *Korea Foundation for Advanced Studies (KFAS)*   Jan 2024 – Current
- 4,000,000 Won Per Semester

Tae–Jun Park Alumni Scholarships | *POSTECH Alumni Foundation*   Oct 2023
- 3,000,000 Won

Global Leadership Program Fellowship | *CSE, POSTECH*   Sep 2023
- Under the supervision by Prof. Wonhwa Kim
- 8,000,000 Won at Maximum

Global Leadership Program Fellowship | *CSE, POSTECH*   Mar 2023
- 3,000,000 Won

Undergraduate Group Research Program, Grand (1st) Prize | *POSTECH*   Feb 2023
- Title: A Study on the Extended PAMS System Using NFT
- 4,000,000 Won Per Team

STX Scholarships | *STX Foudation*   Jan 2023 – Dec 2024
- Won All tution fees & 500,000 Won Per month

Global Leadership Program Fellowship | *CSE, POSTECH*   Sep 2022
- 3,000,000 Won

Jigok Scholarships | *POSTECH*   Feb 2021 – Dec 2022
- Won All tuition fees

ACTIVITIES

PAIS (POSTECH Artificial Intelligence Society) | *Chief, Head of Computer Vision Team* Sep. 2023 – Dec. 2023
PAIS is Official Academy of POSTECH deals with all around of Artificial Intelligence,
such as Machine Learning, Computer Vision, Natural Language Processing.

YEHS (Young Engineers Honor Society), NAEK | *268th Member*   Jul. 2023 – Current

Uni-D | *Member of Incorporate Team & Datathon Team*   Mar. 2023 – Dec 2023

Department of Mueunjae, POSTECH | *Student Advisor*   2023

CSE Student Council, POSTECH | *Vice-President*   2023

The Postech Times, POSTECH | *Editor-In-Chief*   2023

Student Mentoring Program | *Mentor*   Sep. 2022 – Jun. 2023
Taught Programming & Program Solving Course for Freshman

The Postech Times, POSTECH | *Senior Reporter*   2022

The Postech Times, POSTECH | *Junior Reporter*   2021

SKILLS

Languages: C/C++, Python, LaTeX
Tools: Git/GitHub, OpenCV, Pytorch, Tensorflow