

Seoyeon Kim

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Chungam-Ro 77, POSTECH, Pohang-Si, Republic of Korea (37673)

EDUCATION

POSTECH, Pohang, Republic of Korea

- M.S. in Computer Science and Engineering Sep 2022 – Present
 - GPA 4.15/4.30
- B.S. in Computer Science and Engineering Feb 2018 – Aug 2022
 - GPA 3.91/4.3 (Summa Cum Laude)

City of London Freeman's School, Surrey, United Kingdom

- Sixth Form Sep 2015 – Jun 2017
 - 4 A*s in A-levels (Mathematics, Further Mathematics, Physics, Chemistry)

RESEARCH EXPERIENCE

Computer Vision Lab., Pohang, Republic of Korea

- Master's Student (Advisor: Prof. Suha Kwak) Sep 2023 – Present
 - Adapting Large Language Models for Zero-Guidance Segmentation
- Master's Student (Advisor: Prof. Jaesik Park) Sep 2022 – Aug 2023
 - Published Frozen CLIP Adaptation framework for Referring Image Segmentation
- Undergraduate Research Intern (Advisor: Prof. Jaesik Park) Feb 2021 – Aug 2022
 - Developed Sample-Aware Occlusion Network for Intelligent Data Augmentation
 - Proposed Patch-wise Matching Framework for Self-Supervised Learning in Vision Transformers

PUBLICATIONS

- Seoyeon Kim, Minguk Kang, Jaesik Park, "RISCLIP: Referring Image Segmentation Framework using CLIP", arxiv, 2023.
- Seoyeon Kim, Minguk Kang, Jaesik Park, "Patch Aware Matching for Vision Transformer based Self-Supervised Learning Frameworks", In *Image Processing and Image Understanding (IPIU)*, Bronze Award, 2023.

AWARDS & SCHOLARSHIP

First Place in Research Project I Course, POSTECH

- Won best award for outstanding research effort Spring 2021

National Science and Engineering Scholarship, Korea Student Aid Foundation

- Received two years full scholarship for academic excellence Feb 2020 – Jun 2022

Global Leadership Program, POSTECH

- Received CSE scholarship twice for academic potential (4K USD) Mar 2020, Mar 2021

INTERNSHIPS

Hyundai Motors Group

- Research Intern Jun 2021 – Sep 2021
 - Incorporated Object Detection network into company's software
 - Engineered effective neural style transfer model by analysing and combining image-to-image translation modules

TEACHING ASSISTANT

Computer Vision, POSTECH

- Authored and evaluated examinations and group projects Fall 2023

Introduction to Artificial Intelligence I, POSTECH

- Conducted weekly review sessions to address complex concepts and questions Spring 2021

PROFICIENCIES

- Bilingual in English and Korean
- Proficient at C, C++, Python and Experienced in PyTorch