

# 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 4.06/4.30
- 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 2022 – Present
  - Published Referring Image Segmentation Model exploiting Image-Text alignment of CLIP.
- 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, Dongwon Kim, Jaesik Park, Suha Kwak, "Extending CLIP's Image-Text Alignment to Referring Image Segmentation", *In Proceedings of North American Chapter of the Association for Computational Linguistics (NAACL)*, 2024.
- Seoyeon Kim, Minguk Kang, Jaesik Park, "Patch Aware Matching for Vision Transformer based Self-Supervised Learning Frameworks", *34th Workshop on 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, CSE Department

- Received scholarship as academic incentives and research aid (4K USD) Spring 2020, Spring 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 Autumn 2023

### Introduction to Artificial Intelligence I, POSTECH

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

## PROFICIENCIES

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