# Seoyeon Kim

# syeonkim07@postech.ac.kr | Homepage | GitHub

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

#### INTERESTS Computer Vision and Deep Learning

- Vision-Language Multimodal Tasks (ie. Referring Image Segmentation)
- Self-Supervised Learning
- Efficiently Adapting Large Foundation Models to Novel, Real-world Applications

#### **EDUCATION**

#### POSTECH, Pohang, Republic of Korea

M.S. in Department of Computer Science and Engineering
Sep 2022 – Present

• GPA 4.30/4.30

■ B.S. in Computer Science and Engineering Feb 2018 – Aug 2022

• Summa Cum Laude

#### City of London Freemen's School, Surrey, United Kingdom

■ Sixth Form Sep 2015 – Jun 2017

 $\bullet \ \ 4\ A*s\ in\ A-levels\ (Mathematics,\ Further\ Mathematics,\ Physics,\ Chemistry)$ 

#### RESEARCH EXPERIENCE

#### Computer Vision Lab., Pohang, Republic of Korea

Graduate Student (Advisor: Professor Jaesik Park)

Sep 2022 – Present

• Proposed Frozen CLIP Adaptation Framework for Referring Image Segmentation

Undergraduate Research Intern (Advisor: Professor Jaesik Park)
Feb 2021 – Aug 2022

• Developed Sample-Dependent 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", Under Submission, 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

Nov 2021

National Science and Engineering Scholarship, Korea Student Aid Foundation

Received two years full scholarhip 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

· Researched Object Detection and Neural Style Transfer

#### PROFICIENCIES Languages

Bilingual in English and Korean

# **Programming**

- Proficient at C, C++, Python
- Experienced in PyTorch