Seoyeon Kim

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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
  - 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