

Manjin Kim

POSITION	Ph.D Student Department of Convergence IT Engineering Pohang University of Science and Technology (POSTECH)
CONTACT INFORMATION	Posvile, 6 - 401 83, Jigok-ro, Nam-gu Pohang, Gyeongbuk, 37666 Republic of Korea Phone: +82 10 7287 3738 e-mail: mandos@postech.ac.kr
CITIZENSHIP	The Republic of Korea
BIRTHDAY	May 12th, 1995.
RESEARCH INTERESTS	Computer vision and deep learning, especially, video action recognition and multi-modal representation learning
EDUCATION	Pohang University of Science and Technology (POSTECH) , Pohang, Korea <i>Ph.D student (Unified master's and doctor's course)</i> Sep 2019 – now <ul style="list-style-type: none">• Advisor: Prof. Minsu Cho• Anticipated graduation dates: Aug 2024 Pohang University of Science and Technology (POSTECH) , Pohang, Korea <i>B.S. Degree</i> Mar 2013 – Aug 2019 <ul style="list-style-type: none">• Major: Department of Creative IT Engineering• Advisor: Prof. Sangwoo Kim
INTERNATIONAL PUBLICATIONS	Manjin Kim , Paul Hongsuck Seo, Cordelia Schmid, and Minsu Cho. “Learning correlation structures for vision transformers.” <i>CVPR</i> . 2024. Dayoung Kong, Junseok Lee, Manjin Kim , and Minsu Cho. “Future transformer for long-term action anticipation.” <i>CVPR</i> . 2022. Manjin Kim [*] , Heeseung Kwon [*] , Chunyu Wang, Suha Kwak, and Minsu Cho. “Relational self-attention: what’s missing in attention for video understanding.” <i>NeurIPS</i> . 2021. [*] equal contribution Heeseung Kwon [*] , Manjin Kim [*] , Suha Kwak, and Minsu Cho. “Learning self-similarity in space and time as a generalized motion for action recognition.” <i>ICCV</i> . 2021. [*] equal contribution Heeseung Kwon, Manjin Kim , Suha Kwak, and Minsu Cho. “MotionSqueeze: neural motion feature learning for video understanding.” <i>ECCV</i> . 2020.
INDUSTRY EXPERIENCE	Google Research , Grenoble, France <i>Student Researcher</i> Jul 2022 – Jan 2023 <ul style="list-style-type: none">• Developed a multimodal long-form video captioning system.• Mentor: Paul Hongsuck Seo

Microsoft Research Asia (MSRA), remote
Research Intern **Dec 2020 – June 2021**

- Developed a dynamic neural feature transform method, called a relational self-attention.
- Mentor: [Chunyu Wang](#)

LG CNS, Seoul, Korea
Research Intern **Jun 2018 – Aug 2018**

- Developed video data augmentation program using CycleGAN.

JOINED PROJECTS Motion-centric video representation learning (with Google Research)

- Developed vision transformers, dubbed StructViT, that effectively learn spatial(-temporal) correlation structures for both image and video understanding.

Online action detection in streamed videos (with POSCO ICT Company)

- Implemented real-time anomaly action recognition system for video surveillance.

Sentimental analysis on Hyundai vehicle models (with Hyundai Motor Company)

- Analyzed sentiment of Hyundai vehicle models from comments on web communities.

CERTIFICATES **Linux Master 1st class**, Korea Association for ICT promotion, **May 2018**

Industrial Engineer Information Processing,
Human Resources Development Service of Korea, **Dec 2017**

MILITARY OBLIGATION **The 1st Fighter Wings, Information & communication Battalion**, Gwangju, Korea
Staff Sergeant, the information security specialist **Apr 2016 – Apr 2018**

- Carried out the obligatory duty of national defense.

PROGRAMMING LANGUAGES Python, Java, C, C++, Pytorch, Tensorflow

LANGUAGE SKILLS Korean(native), English(advanced)

REFEREES **Minsu Cho**, Professor
Department of Computer Science and Engineering
[Pohang University of Science and Technology \(POSTECH\)](#), Pohang, Korea
e-mail: mscho@postech.ac.kr