

# Manjin Kim

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

**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 1<sup>st</sup> class**, Korea Association for ICT promotion, **May 2018**

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

MILITARY OBLIGATION **The 1<sup>st</sup> 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  
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