

# Minji Kim

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## RESEARCH INTERESTS

**Video Understanding, Multimodal Large Language Models, Interpretable and Efficient Video Models**

## EDUCATION

<b>Ph.D. in Electrical and Computer Engineering</b> , Seoul National University Computer Vision Lab. (Advisor: Prof. Bohyung Han)	Mar 2020 – Present <i>Seoul, Korea</i>
<b>B.S. in Electrical and Electronics Engineering</b> , Konkuk University GPA 4.31/4.50, Major GPA 4.43/4.50, Rank 2/86	Mar 2016 – Feb 2020 <i>Seoul, Korea</i>

## PUBLICATIONS

[1] <b>Map the Flow: Revealing Hidden Pathways of Information in VideoLLMs</b> Minji Kim*, Taekyung Kim*, Bohyung Han (*Equal Contribution)	<b>ICLR 2026</b> (arXiv)
[2] <b>Leveraging Temporal Contextualization for Video Action Recognition</b> Minji Kim, Dongyo Han, Taekyung Kim, Bohyung Han Qualcomm Innovation Fellowship Korea 2024 Winner	<b>ECCV 2024</b> (arXiv)
[3] <b>Towards Sequence-Level Training for Visual Tracking</b> Minji Kim*, Seungkwan Lee*, Jungseul Ok, Bohyung Han, Minsu Cho (*Equal Contribution)	<b>ECCV 2022</b> (arXiv)
[4] <b>Online Hybrid Lightweight Representations Learning: Its Application to Visual Tracking</b> Ilchae Jung, Minji Kim, Eunhyeok Park, Bohyung Han	<b>IJCAI 2022</b> (arXiv)
[5] <b>Top-down Thermal Tracking Based on Rotatable Elliptical Motion Model for Intelligent Livestock Breeding</b> Minji Kim, Wonjun Kim	<b>Multimedia Systems 2020</b>

## WORK EXPERIENCE

<b>Amazon</b> <i>Applied Scientist Intern</i>	Jun 2025 – Dec 2025 <i>Berlin, Germany</i>
<ul style="list-style-type: none"><li>• Mentor: Matthieu Guillaumin (Premium AI Science team)</li><li>• Developed a personalized LLM agent for session-based product recommendations, leveraging GRPO to improve user intent reasoning with minimal human supervision</li></ul>	

<b>NAVER AI Lab</b> <i>Research Intern</i>	Oct 2023 – Apr 2024 <i>Seongnam, Korea</i>
<ul style="list-style-type: none"><li>• Mentors: Taekyung Kim and Dongyo Han (Backbone Research team)</li><li>• Worked on efficient CLIP adaptation for video understanding by integrating long-range context information</li><li>• Published Temporally Contextualized CLIP (TC-CLIP) at ECCV 2024 [2]</li></ul>	

## HONORS & AWARDS

<b>Top Reviewer, NeurIPS 2025</b>	Oct 2025
<b>Qualcomm Innovation Fellowship Korea (Winner)</b> , Qualcomm Technologies Inc. Leveraging Temporal Contextualization for Video Action Recognition [2]	Dec 2024
<b>Best Paper Award, Workshop on Image Processing and Image Understanding (IPIU)</b> Grand Prize (2025) [2], Honorable Mention (2023) [3], Undergraduate Best Paper (2019) [5]	

**Intel FPGA Design Contest (3rd Place)**, Intel Korea Ltd.  
Video Stabilization Based on Heterogeneous Computing Using OpenCL

Dec 2017

**Academic Excellence Scholarship**, Konkuk University

2016 – 2019

## FUNDING PROJECTS

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**Tiny Object Detection in EO/IR Images**

Jan 2022 – May 2023

- Funded by the Agency for Defense Development (ADD)
- Developed a multispectral data augmentation technique for training a unified EO/IR detection model

## OTHER RESEARCH EXPERIENCE

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**Computer Vision Lab, Seoul National University**: Student Research Intern

Jun 2019 – Sep 2019

- Developed an ensemble framework of object trackers

**Deep Computer Vision Lab, Konkuk University**: Student Research Intern

Jan 2018 – Apr 2019

- Developed a deformable multi-object tracking framework using thermal sensors based on Kalman filter [5]
- Researched low-light image enhancement with singular value decomposition (B.S. thesis)

## TEACHING EXPERIENCE

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**Samsung Electronics**: Teaching Assistant

- Samsung AI Expert: Real-Time Video Object Segmentation for Automated Bottle Replacement 2024
- Samsung AI Academy, Advanced Course: Real-Time Visual Object Tracking 2020

**Seoul National University**: Teaching Assistant

- Dependable Deep Neural Networks (Prof. Bohyung Han) Spring 2022
- Data Structures (Prof. Bohyung Han) Fall 2021

## ACADEMIC SERVICE

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**Conference Reviewer** **ICLR** (2026), **NeurIPS** (2023, 2024 Workshop on Video-Language Models, 2025)  
**CVPR** (2023, 2025, 2026), **ICCV** (2023, 2025), **ECCV** (2024),  
**AAAI** (2025), **WACV** (2024)

**Journal Reviewer** **TPAMI**, **MVA**

## LEADERSHIP

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**President of BOOT&4DIM**, Electronics Engineering Academic Club, Konkuk University

2018

- Delivered seminars for Image Processing with OpenCV, C/C++ Programming, and Data Structures
- Mentored junior teams in embedded software projects and algorithm competitions

## SKILLS

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**Tools and Languages** PyTorch, Python, C/C++, MATLAB, Git, Docker, **L<sup>A</sup>T<sub>E</sub>X**  
**Communication** Korean, English

## REFERENCE

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**Advisor: Prof. Bohyung Han**

- [bhhan@snu.ac.kr](mailto:bhhan@snu.ac.kr)
- [cv.snu.ac.kr/index.php/bhhan](http://cv.snu.ac.kr/index.php/bhhan)