

Minji Kim

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RESEARCH INTERESTS

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

EDUCATION

Ph.D. in Electrical and Computer Engineering, Seoul National University Mar 2020 – Present
Computer Vision Lab. (Advisor: Prof. Bohyung Han) *Seoul, Korea*

B.S. in Electrical and Electronics Engineering, Konkuk University Mar 2016 – Feb 2020
GPA 4.31/4.50, Major GPA 4.43/4.50, Rank 2/86 *Seoul, Korea*

PUBLICATIONS

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

WORK EXPERIENCE

Amazon Jun 2025 – Dec 2025
Applied Scientist Intern *Berlin, Germany*

- Mentor: Matthieu Guillaumin (Premium AI Science team)
- Developed a personalized LLM agent for session-based product recommendations, leveraging GRPO to improve user intent reasoning with minimal human supervision

NAVER AI Lab Oct 2023 – Apr 2024
Research Intern *Seongnam, Korea*

- Mentors: Taekyung Kim and Dongyoon Han (Backbone Research team)
- Worked on efficient CLIP adaptation for video understanding by integrating long-range context information
- Published Temporally Contextualized CLIP (TC-CLIP) at ECCV 2024 [2]

HONORS & AWARDS

Top Reviewer, NeurIPS 2025 Oct 2025

Qualcomm Innovation Fellowship Korea (Winner), Qualcomm Technologies Inc. Dec 2024
Leveraging Temporal Contextualization for Video Action Recognition [2]

Best Paper Award, Workshop on Image Processing and Image Understanding (IPIU)
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

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

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

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

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

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

Tools and Languages PyTorch, Python, C/C++, MATLAB, Git, Docker, L^AT_EX
Communication Korean, English

REFERENCE

Advisor: Prof. Bohyung Han

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