

Minji Kim

Seoul, South Korea
minji@snu.ac.kr

Computer Vision Researcher

byminji/github.io
linkedin.com/in/minji-kim

I am a Ph.D. student at [SNU Computer Vision Lab](#), under the guidance of [Prof. Bohyung Han](#). My research interest is in computer vision and machine learning, with a primary focus on **object-level understanding in an open world** based on **object detection, segmentation, and tracking**. Recently, I am interested in exploring this topic further with multi-modal data.

EDUCATION

Ph.D. in Electrical and Computer Engineering, Seoul National University Mar 2020 — Present
Advisor: [Prof. Bohyung Han](#)

B.S. in Electrical and Electronics Engineering, Konkuk University Mar 2016 — Feb 2020
GPA 4.31/4.50, Class Rank 2/86

PUBLICATIONS

Towards Sequence-Level Training for Visual Tracking **ECCV 2022**
Minji Kim*, Seungkwon Lee*, Jungseul Ok, Bohyung Han, and Minsu Cho (*Equal Contribution)

Online Hybrid Lightweight Representations Learning: Its Application to Visual Tracking **IJCAI 2022**
Ilchae Jung, **Minji Kim**, Eunhyeok Park, Bohyung Han

Top-down Thermal Tracking Based on Rotatable Elliptical Motion Model for Intelligent Livestock Breeding **Multimedia Systems 2020**
Minji Kim, Wonjun Kim

INDUSTRIAL PROJECTS

Tiny Object Detection in EO/IR Images Jan 2022 - Present
Agency for Defense Development (ADD)

HONORS & AWARDS

IPIU Excellence Paper Award Feb 2023
Towards Sequence-Level Training for Visual Tracking

KIBME Undergraduate Capstone Design Contest Nov 2019
Low-Light Image Enhancement Using Patch-Based Singular Value Decomposition

IPIU Undergraduate Best Paper Award Feb 2019
Rotatable Elliptical Motion Model-based Thermal Object Tracking for Intelligent Livestock Breeding

Intel FPGA Design Contest (3rd Place Award) Dec 2017
Video Stabilization Based on Heterogeneous Computing Using OpenCL

Academic Scholarship 2016 — 2019
Konkuk University

WORK EXPERIENCE

Computer Vision Lab. (Advisor: Prof. Bohyung Han) Jun 2019 — Sep 2019
Undergraduate Research Internship, Seoul National University

- Researched an ensemble framework for different visual trackers. (Domestic publication)

Deep Computer Vision Lab. (Advisor: Prof. Wonjun Kim)

Jan 2018 — Apr 2019

Undergraduate Research Internship, Konkuk University

- Researched a multi-object tracking method for thermal images. (Journal publication)
- Developed an unified framework for simultaneous illumination correction and denoising.

TEACHING EXPERIENCE

Dependable Deep Neural Networks (Prof. Bohyung Han)

Spring 2022

Teaching Assistant, Seoul National University (430.659)

Data Structures (Prof. Bohyung Han)

Fall 2021

Teaching Assistant, Seoul National University (430.217)

Samsung AI Project on Visual Object Tracking

May & July 2020

Teaching Assistant, Samsung Electronics

ACADEMIC SERVICE

Conference Reviewer CVPR (2023)

Journal Reviewer TPAMI, MVAP

LEADERSHIP

President of BOOT&4DIM

2018

Electronics Engineering Academic Club, Konkuk University

- Seminar Lecturer: Image Processing with OpenCV, C/C++ Programming, Data Structures
- Mentoring: embedded software team projects, algorithm competitions

SKILLS

Tools and Languages Python, C/C++, MATLAB, PyTorch, \LaTeX

Communication Korean, English

REFERENCES

Advisor: Prof. Bohyung Han

- bhhan@snu.ac.kr
- cv.snu.ac.kr/index.php/bhhan