# Gyeong-hyeon Kim

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# **Research Interest**

Research interest	
Machine Learning, Deep Learning, Computer Vision, and Video Understanding. Specific Research Interest:	
Temporal Action Segmentation, Action Anticipation	
Continual Learning	
Education	
Chung-Ang University Ph.D. degree in Computer Science and Engineering • Supervised by Prof. Eunwoo Kim	Mar. 2023 - Present Seoul, South Korea
<ul> <li>Chung-Ang University</li> <li>M.S. in Computer Science and Engineering.</li> <li>Dissertation title: "Temporal Action Segmentation with Alleviating Local Context Fading"</li> <li>GPA: 4.39/4.5</li> <li>Supervised by Prof. Eunwoo Kim</li> </ul>	Mar. 2021 - Feb. 2023 Seoul, South Korea
<ul><li>Chung-Ang University</li><li>B.S. degree in Computer Science and Engineering</li><li>GPA: 3.81/4.5</li></ul>	Mar. 2014 - Feb. 2021 Seoul, South Korea
Publications	
Growing a Brain with Sparsity-Inducing Generation for Continual Learning Hyundong Jin, Gyeong-hyeon Kim, Chanho Ahn, and Eunwoo Kim	Oct. 2023
Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2023	
GhostNeXt: Rethinking Module Configurations for Efficient Model Design	Mar. 2023
Kiseong Hong, Gyeong-hyeon Kim, and Eunwoo Kim	
Applied Sciences, vol. 13, no. 5, p. 3301	
Stacked Encoder-Decoder Transformer with Boundary Smoothing for Action Segmentation Gyeong-hyeon Kim, and Eunwoo Kim Electronics Letters, vol. 58, no. 25, pp. 972-974	Dec. 2022
Projects	
Time-Series Action Prediction and Segmentation	Mar. 2023 - Dec. 2023
Funded by HD Hyundai Construction Equipment	
<ul> <li>This project aims to develop high-performing deep learning models to learn and segment time-s construction equipments.</li> </ul>	series actions for various
Customized Neural Architecture Search and Proposal Funded by Samsung SDS	Mar. 2021 - Oct. 2021
<ul> <li>This project aims to develop customized neural architecture search technology for visual task</li> <li>Co-worked with Samsung SDS AI Vision Lab.</li> </ul>	S.
Pose Estimation for Bin-Picking with a 3D Model Funded by Doosan Digital Innovation	Oct. 2020 - Dec. 2020
• This project develops exact 6D pose estimation and instance segmentation algorithms for a	bin-picking problem of a

• This project develops exact 6D pose estimation and instance segmentation algorithms for a bin-picking problem of a robot.

## Honors and Awards

Dec. 2023 1st Place, The 3rd Big Data Idea Competition by Doosan Enerbility
Aug. 2023 2nd Place, The 2nd Big Data Idea Competition by HD Hyundai Site Solutions
Mar. 2023 - Feb. 2025 CAU GRS Scholarship for Ph.D. Course, Chung-Ang University
Mar. 2021 - Feb. 2023 CAU GRS Scholarship for M.S. Course, Chung-Ang University
Dec. 2020 3rd Place, Artificial Intelligence Problem Solving Contest by National IT Industry Promotion Agency (NIPA)
Sep. 2020 3rd Place, Davinci Open Source SW·AI Deep Learning Hackathon by Chung-Ang University

## Patents

#### **Apparatus and Method for Classifying Motion of Objects in Video** Eunwoo Kim, and **Gyeong-hyeon Kim**

• Korea patent (applied) No. 10-2023-0056528

## Leadership and Volunteering

## Samsung Junior Software Cup

## **College Student Mentor**

- Mentored elementary, middle, and high school students as a college student mentor with an employee mentor.
- Conducted mentoring and feedback for the software implementation of mentee's ideas.

# **Teaching Experience**

#### Teaching Assistant

2024-SpringMachine Learning (54616)2022-SpringCapstone Design (56120)2021-SpringAlgorithms (13601)

## Skills

Languages:

Python, C/C++, Java, Bash

#### Deep Learning Tools:

PyTorch, TensorFlow

## **Communications:**

Korean, English

Sep. 2020 - Nov. 2020

May. 2023