

# Youngseo Kim

M.S STUDENT

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## Research Interest

AI, Computer Vision, Generative Model, Multi-modal

## Education

### KAIST

M.S IN GRADUATE SCHOOL OF CULTURE TECHNOLOGY

- Advisor: Junyong Noh

Daejeon, Republic of Korea

Sep. 2024 - Present

### Sangmyung University

B.S IN HUMAN-CENTERED ARTIFICIAL INTELLIGENCE

- GPA: 3.92 / 4.5

Seoul, Republic of Korea

Mar. 2019 - Feb. 2024

## Research Experience

### Visual Media Lab @ KAIST

UNDERGRADUATE STUDENT

- Advisor: Junyong Noh
- Representative Feature Extraction
- Few-shot Learning with Complementary Features

Daejeon, Republic of Korea

July. 2023 - Feb. 2024

### Computer Vision Lab @ Korea University

UNDERGRADUATE STUDENT

- Advisor: Sangpil Kim
- Multi-modal Representation Learning

Seoul, Republic of Korea

Sep. 2022 - June. 2023

### K-SW Square Spring Program @ Purdue University

VISITING SCHOLAR

- Advisor: Eric T. Matson
- Received the Korean government's full-funded scholarship
- UAV Detection based Deep Learning

West Lafayette, IN, U.S.A

Apr. 2022 - Aug. 2022

### Institute of Intelligence Informatics Technology @ Sangmyung University

UNDERGRADUATE STUDENT

- Advisor: Dongkeun Kim
- Machine Learning, Human Pose Estimation

Seoul, Republic of Korea

Aug. 2021 - Mar. 2022

## Publications

[1] Under review **Few-shot Keypoint Localization with Complementary Features**, Yun Kwan, Jongwoo Choi, **Youngseo Kim**, Seokhyeon Hong, Junyong Noh, 2024

[2] Under review **Representative Feature Extraction During Diffusion Process for Sketch Extraction with One Example**, Yun Kwan\*, **Youngseo Kim\***, Kwanggyoon Seo, Chang Wook Seo, and Junyong Noh, 2024. (\* Equal contribution)

[3] Under review **Soundini: Sound-Guided Diffusion for Natural Video Editing**, Seung Hyun Lee, Sieun Kim, Innfarn Yoo, Feng Yang, Donghyeon Cho, **Youngseo Kim**, Huiwen Chang, Jinkyu Kim, and Sangpil Kim, arXiv, 2023.

[4] **How Far Can a Drone be Detected? A Drone-to-Drone Detection System Using Sensor Fusion**, Juann Kim, **Youngseo Kim**, Heeyeon Shin, Yaqin Wang, and Eric T. Matson, ICAART, 2023.

[5] **Deep Learning Based Malicious Drone Detection Using Acoustic and Image Data**, Juann Kim, Dongwhan Lee, **Youngseo Kim**, Heeyeon Shin, Yeeun Heo, Yaqin Wang, and Eric T. Matson, IEEE IRC, 2022.

## Honors & Awards

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- 2023 **2nd Place**, Generative AI Competition, Sangmyung Univeristy, Seoul, Republic of Korea  
2022 **Finalist**, Joint AI Competition  
2021 **Scholarship**, SW Scholarship, Sangmyung University  
2021 **1st Place**, SM AI Competition 1, Sangmyung University, Seoul, Republic of Korea  
2021 **2nd Place**, SM AI Competition 2, Sangmyung University, Seoul, Republic of Korea  
2019 **3rd Place**, SM AI Contest, Sangmyung University, Seoul, Republic of Korea

## Skills

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**Programming Languages** Python, C, Java, Linux, bash, Latex  
**Tools** Pytorch, Tensorflow, Keras, scikit-learn  
**Languages** Korean, English

## Teaching Experience

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- 2023 **Teaching Assistant**, Anomaly Detection Course for LG CNS Executives and Employees.

## Presentation

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### National program of excellence in SW

Seoul, Republic of Korea

PRESENTER FOR <SEMANTIC SEGMENTATION FOR BODY POSITIONING RECOMMENDATION>

Dec. 2021

- Operated an outstanding exhibition in the Metaverse Gallery, showcasing exceptional works.
- Presented and facilitated Q&A sessions for the submitted outstanding pieces.

## Extracurricular Activity

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### Programming Central Club, INYRO

Seoul, Republic of Korea

MEMBER

Mar. 2019 - Mar. 2021

- Gained expertise in Python and C Language.

### Elastic Stack Fundamental Training @ Elastic Search Korea LLC.

Seoul, Republic of Korea

TRAINEE

Jan. 2021 - Mar. 2021

- Leverage its capabilities and functions for security analysis, incident response, and threat hunting.