

# Youngseo Kim

Undergraduate student in A.I, with concentration  
in Computer Vision

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## Research Interests

Generative Model   Multi-modal Fusion

## Education

|            |   |
|------------|---|
| Mar. 2019- | <b>University of Sangmyung at Seoul</b>                                     |
| Present    | BS. Department of Human-Centered Artificial Intelligence<br>GPA: 3.92 / 4.5 |

## Research & Work Experience

|            |   |
|------------|---|
| Aug. 2021- | <b>Institute of Intelligence Informatics Technology, Sangmyung University</b> |
| Mar. 2022  | Undergraduate Researcher<br>Development of Human Pose                         |
| Apr. 2022- | <b>K-SW Square Spring Program, Purdue University</b>                          |
| Aug. 2022  | Researcher Intern<br>Capstone Project, Drone Detection                        |
| Sep. 2022- | <b>Computer Vision Lab, Korea University</b>                                  |
| Present    | Undergraduate Researcher<br>Multi-modal Representation Learning               |

## Publications

- [1] J. Kim, D. Lee, **Y. Kim**, H. shin, Y. Heo, Y. Wang, Eric T. Matson, "Deep Learning Based Malicious Drone Detection Using Acoustic and Image Data," 2022 Sixth IEEE International Conference on Robotic Computing (IRC), Italy, 2022, pp. 91-92, doi: 10.1109/IRC55401.2022.00024.
- [2] Kim, J.; **Kim, Y.**; Shin, H.; Wang, Y. and Matson, E. (2023). How Far Can a Drone be Detected? A Drone-to-Drone Detection System Using Sensor Fusion. In Proceedings of the 15th International Conference on Agents and Artificial Intelligence - Volume 3: ICAART, ISBN 978-989-758-623-1; ISSN 2184-433X, SciTePress, pages 877-884. DOI: 10.5220/0011791000003393
- [3] *Under review "Soundini: Sound-Guided Diffusion for Natural Video Editing", Proceedings of the IEEE/CVF International Conference on Computer Vision. 2023*

## Conferences

1. J. Kim, D. Lee, **Y. Kim**, H. shin, Y. Heo, Y. Wang, Eric T. Matson, "2022 Sixth IEEE International Conference on Robotic Computing (IRC)", Italy, Dec. 2022 - poster
2. J. Kim, **Y. Kim**, H. shin, Y. Wang, Eric T. Matson, "15th International Conference on Agents and Artificial Intelligence 2023 (ICAART 2023)", Portugal, Feb. 2023 - poster

## Research & Work Experience

|            |  |
|------------|--|
| Sep. 2021- | <b>PBL Project 1</b>   |
| Dec. 2021  | A system that creates the model the casting director wants,<br>using face descriptions<br>Development of Multimodal Learning |
| Mar. 2021- | <b>PBL Project 2</b>   |
| July. 2021 | Semantic segmentation technology position of a recommendation service<br>Development of Semantic Segmentation                |

## Honors and Awards

|           |   |
|-----------|---|
| Nov. 2019 | 3rd Prize at Sangmyung Creative Convergence Integration Performance Contest<br>『SM AI Contest』 , Sangmyung University<br>National Science Foundation Graduate Research Fellowship |
| Aug. 2021 | 1st Prize at 1st SW Educational Performance Convention<br>『SM AI Competition』 , Sangmyung University  |
| Nov. 2021 | 2nd Prize at SW Education Performance Convention 『SM AI Competition』 ,<br>Sangmyung University  |
| Dec. 2021 | SW Scholarship, Sangmyung University  |

## Skills

|            |   |
|------------|---|
| Programing | Python(Fluent), C(Fluent), bash, Linux, Java, LATEX<br>Pytorch(Fluent), TensorFlow, Keras |
| Languages  | Korean, English, Japanese   |