Youngseo Kim

M.S Student

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Research Interest

AI, Computer Vision, Generative Model, Multi-modal

Education

Korea University   *Seoul, Republic of Korea*
M.S in Department of Artificial Intelligence   *Mar. 2024 - Present*
- Advisor: Donghyun Kim

Sangmyung University   *Seoul, Republic of Korea*
B.S in Human-centered Artificial Intelligence   *Mar. 2019 - Feb. 2024*
- GPA: 3.92 / 4.5

Research Experience

Visual Media Lab @ KAIST(Korea Advanced Institute of Science and Technology)   *Daejeon, Republic of Korea*
Undergraduate Student   *July. 2023 - Feb. 2024*
- Advisor: Junyong Noh
- Representative Feature Extraction
- Few-shot Learning with Complementary Features

Computer Vision Lab @ Korea University   *Seoul, Republic of Korea*
Undergraduate Student   *Sep. 2022 - June. 2023*
- Advisor: Sangpil Kim
- Multi-modal Representation Learning

K-SW Square Spring Program @ Purdue University   *West Lafayette, IN, U.S.A*
Visiting Scholar   *Apr. 2022 - Aug. 2022*
- Advisor: Eric T. Matson
- Received the Korea government's full-funded scholarship
- Deep Learning based UAV Detection

Institute of Intelligence Informatics Technology @ Sangmyung University   *Seoul, Republic of Korea*
Undergraduate Student   *Aug. 2021 - Mar. 2022*
- Advisor: Dongkeun Kim
- Machine Learning, Human Pose Estimation

Publications

[1] *Under review* **Few-shot Keypoint Localization with Complementary Features**, *ECCV, 2024*

[2] *Under review* **Stable Diffusion Feature Extraction for Sketching with One Example**, *Yun Kwan[*]*, **Youngseo Kim**[*], *Kwanggyoon Seo, Chang Wook Seo, and Junyong Noh, ECCV, 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

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

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

Teaching Experience

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

Presentation

National program of excellence in SW *Seoul, Republic of Korea*
PRESENTER FOR <> *Dec. 2021*
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Extracurricular Activity

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.