Youngseo Kim

M.S Student

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Research Interest

Computer Vision, Generative Model, AI safety, Multi-modal, Diffusion, Adversarial Attack

Education

KAIST   *Daejeon, Republic of Korea*
M.S in Graduate School of Culture Technology   *Sep. 2024 - Present*
- Advisor: Junyong Noh

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   *Daejeon, Republic of Korea*
Undergraduate Student   *July. 2023 - Feb. 2024*
- Advisor: Junyong Noh
- Computer Vision, Generative Model
- 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 Korean government's full-funded scholarship
- UAV Detection based Deep Learning

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] **X-AVDT: Audio-Visual Cross-Attention for Robust Deepfake Detection**, **Youngseo Kim**, Kwan Yun, Seokhyeon Hong, Sihun Cha, Colette Suhjung Koo, and Junyong Noh, CVPR 2026.

[2] *Under review* **LV-Ton: Lightweight Virtual Try-On Streamlining a Single-Step Diffusion Model**, *Kwan Yun, **Youngseo Kim**, and Junhyoung Noh, SIGGRAPH 2026*

[3] *Under review* **StyleID: A Perception-Aware Dataset and Metric for Stylization-Agnostic Facial Identity Recognition**, *Kwan Yun, Changmin Lee, AYeong Jeong, **Youngseo Kim**, Seungmi Lee, and Junyoung Noh, SIGGRAPH 2026*

[4] *Under review* **Anymate: Animating Arbitrary 3D Faces from Video**, *Serin Yoon, Sihun Cha, Kwan Yun, **Youngseo Kim**, Inyup Lee, and Junyoung Noh, ACM TOG 2025*

[5] **Stable Diffusion Feature Extraction for Sketching with One Example**, *Kwan Yun[*], **Youngseo Kim**[*], Kwanggyoon Seo, Chang Wook Seo, and Junyong Noh, Computational Visual Media 2025. (* Equal contribution)*

[6] **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.*

[7] **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.*

[8] **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*

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 <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

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.