

Sung Jin Um

SOFTWARE ENGINEER · AI RESEARCHER

5, Maeyeong-ro 425beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Rep. of KOREA

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Education

Kyung Hee University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Undergraduate Research Intern in Visual AI Lab.

Yongin, S.Korea

Mar. 2021 - PRESENT

Skills

Programming Python, C/C++, Golang, Node.JS

AI Multimodal Learning, Computer Vision, Audiovisual Learning

Languages Korean, English

Experience

ETRI

RESEARCH INTERN

- Pipelining end-to-end deep learning model with multiple models (OD, SAM, STD, STR).
- LLM & VLM Analysis. (CLIP, LLaMa, LLaVa, etc..)

Daejeon, S.Korea

Jan. 2024 - Feb. 2024

Undergraduate Research, Visual AI Lab (Prof. Jung Uk Kim)

MULTIMODAL AI RESEARCHER

- Research multimodal learning, especially audio-visual and text.
- Currently researching dense video captioning (DVC).

Yongin, S.Korea

Sep. 2022 - PRESENT

System Administrator, Visual AI Lab

LAB SYSTEM ADMINISTRATOR

- Managing GPU Servers and NAS, more than 10 users.

Yongin, S.Korea

Sep. 2022 - PRESENT

Publications

Object-aware Sound Source Localization via Audio-Visual Scene Understanding

SUNG JIN UM^{*}, DONGJIN KIM^{*}, SANGMIN LEE[†], JUNG UK KIM[†] (* **EQUAL CONTRIBUTION**)

CVPR 2025

Jun. 2025

Watch Video, Catch Keyword: Context-aware Keyword Attention for Moment Retrieval and Highlight Detection

SUNG JIN UM, DONGJIN KIM, SANGMIN LEE[†], JUNG UK KIM[†]

AAAI 2025

Feb. 2025

Learning to Visually Localize Sound Sources from Mixtures without Prior Source Knowledge

DONGJIN KIM^{*}, SUNG JIN UM^{*}, SANGMIN LEE[†], JUNG UK KIM[†] (* **EQUAL CONTRIBUTION**)

CVPR 2024

Jun. 2024

Audio-Visual Spatial Integration and Recursive Attention for Robust Sound Source Localization

SUNG JIN UM^{*}, DONGJIN KIM^{*}, JUNG UK KIM[†] (* **EQUAL CONTRIBUTION**)

ACMMM 2023

Oct. 2023

Awards

2023 **3rd Place**, Khuggle Competition

Yongin, S.Korea