Youngtaek Oh
PhD Student, Electrical Engineering, KAIST.

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RESEARCH INTEREST

My research interest aims to build robust recognition system for image and video understanding under limited and/or biased data. Towards this goal, I have been working on data-efficient learning techniques in image and video domain. In addition, I have interest in vision and language models, specifically for enhancing visual understanding tasks.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Ph.D. in Electrical Engineering; Co-advisors: In So Kweon and Junmo Kim — Sep. 2021 – Present

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
M.S. in Electrical Engineering; Advisor: In So Kweon — Mar. 2019 – Feb. 2021

Korea University — Seoul, South Korea
B.S. in Electrical Engineering; GPA: 4.40/4.5 — Mar. 2015 – Feb. 2019

WORK EXPERIENCE

LG AI Research — Seoul, South Korea
Research Internship — Sep. 2023 – *Present*

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Researcher, Robotics and Computer Vision Lab. — Mar. 2021 – Aug. 2021

PUBLICATION

[J1] Empirical Study on Using Adapters for Debiased Visual Question Answering
*Jae Won Cho, Dawit Mureja Argaw, **Youngtaek Oh**, Dong-Jin Kim, In So Kweon*
∘ *Computer Vision and Image Understanding (**CVIU**), 2023.*

[C5] Self-Sufficient Framework for Continuous Sign Language Recognition
*Youngjoon Jang, **Youngtaek Oh**, Jae Won Cho, Myungchul Kim, Dong-Jin Kim, In So Kweon, Joon Son Chung*
∘ *International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 2023.*

[C4] Signing Outside the Studio: Benchmarking Background Robustness for Continuous Sign Language Recognition
*Youngjoon Jang, **Youngtaek Oh**, Jae Won Cho, Dong-Jin Kim, Joon Son Chung, In So Kweon*
∘ British Machine Vision Conference (**BMVC**), 2022.

[C3] DASO: Distribution-Aware Semantics-Oriented Pseudo-label for Imbalanced Semi-Supervised Learning
***Youngtaek Oh**, Dong-Jin Kim, In So Kweon*
∘ Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022.

[C2] KSL-Guide: A Large-scale Korean Sign Language Dataset Including Interrogative Sentences for Guiding the Deaf and Hard-of-Hearing
*Soomin Ham, Kibaek Park, Youngjoon Jang, **Youngtaek Oh**, Seokmin Yun, Sukwon Yoon, Chang Jo Kim, Han-Mu Park, In So Kweon*
∘ International Conference on Automatic Face and Gesture Recognition (**FG**), 2021.

[C1] SideGuide: A Large-scale Sidewalk Dataset for Guiding Impaired People
Kibaek Park, **Youngtaek Oh***, Soomin Ham*, Kyungdon Joo*, Hyokyoung Kim, Hyoyoung Kum, In So Kweon*
∘ International Conference on Intelligent Robots and Systems (**IROS**), 2020.

HONORS AND AWARDS

Top 3% Recognition Certificates, ICASSP 2023 — June 2023
2nd place in NICE Challenge ($5000), NICE Workshop at CVPR 2023 — May 2023
Finalist, Qualcomm Innovation Fellowship Korea — Nov. 2022
Outstanding Reviewer Award, ECCV 2022 — Oct. 2022
National Scholarship for Science and Engineering — Mar. 2017 - Feb. 2019

ACADEMIC SERVICE

Conference Reviewer

International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**)	2024–*Present*
Winter Conference on Applications of Computer Vision (**WACV**)	2024–*Present*
International Conference on Learning Representations (**ICLR**)	2024–*Present*
Conference on Neural Information Processing Systems (**NeurIPS**)	2023–*Present*
International Conference on Computer Vision (**ICCV**)	2023–*Present*
Conference on Computer Vision and Pattern Recognition (**CVPR**)	2022–*Present*
European Conference on Computer Vision (**ECCV**)	2022–*Present*