

Youngtaek Oh

PhD Student, Electrical Engineering, KAIST.

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Webpage: <https://ytaek-oh.github.io>

RESEARCH INTEREST

My research aims to effectively train deep neural networks under limited labels and data, such as long-tailed/biased labels and unlabeled data. In addition, my research interests include language-inspired perceptions in Vision-Language models to bridge the gap between closed training environments and the open-world.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Ph.D. in Electrical Engineering; Co-advisors: In So Kweon and Junmo Kim	Daejeon, South Korea Sep. 2021 – Present
Korea Advanced Institute of Science and Technology (KAIST) M.S. in Electrical Engineering; Advisor: In So Kweon	Daejeon, South Korea Mar. 2019 – Feb. 2021
Korea University B.S. in Electrical Engineering; GPA: 4.40/4.5	Seoul, South Korea Mar. 2015 – Feb. 2019

WORK EXPERIENCE

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

International Conferences

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.*

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.*

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.*
◦ Also presented at CVPR Workshop (L3D-IVU, 2022).

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.*

SideGuide: A Large-scale Sidewalk Dataset for Guiding Impaired People.

Kibaek Park, Youngtaek Oh*, Soomin Ham*, Kyungdon Joo*, Hyokyung Kim, Hyoyoung Kum, In So Kweon*
◦ *International Conference on Intelligent Robots and Systems (IROS), 2020.*

ACADEMIC SERVICE

Conference Reviewer

Conference on Computer Vision and Pattern Recognition (CVPR)	2022–2023
Conference on Neural Information Processing Systems (NeurIPS)	2023
International Conference on Computer Vision (ICCV)	2023
European Conference on Computer Vision (ECCV)	2022

HONORS AND AWARDS

Finalist, Qualcomm Innovation Fellowship Korea	Nov. 2022
Outstanding reviewer at ECCV 2022	Oct. 2022
National Scholarship for Science and Engineering	Mar. 2017 - Feb. 2019

TEACHING

Teaching Assistance (TA) at EE, KAIST

EE735: Computer Vision (Fall, 2020)
EE898: Advanced Topics in Deep Learning for Robotics and Computer Vision (Spring, 2020)
EE405: Electronics Design Lab (Fall, 2019)