

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 ◦ Thesis: Robust Semi-Supervised Learning to Label Bias	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

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

European Conference on Computer Vision (ECCV)	2022
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Conference on Computer Vision and Pattern Recognition (CVPR)	2022-2023
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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)