

Youngtaek Oh

PhD Student, Electrical Engineering, KAIST.

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

RESEARCH INTEREST

My research interests lie in the intersection of Computer Vision and Machine Learning. Particularly, I focused on data-hungry problem (*e.g.*, *semi-supervised learning*) and bias in data labels (*e.g.*, *class-imbalance*). My ultimate research goal is to develop a reliable and responsible AI model in the real-world where robustness and fairness issues need to be addressed.

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. 2018

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

- 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.
 - CVPR Workshop on Learning with Limited Labelled Data for Image and Video Understanding (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, YeongJun 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.

Ongoing Works

- A work on new continuous sign language recognition (CSLR) framework.
YeongJun Jang, Youngtaek Oh, Myungchul Kim, Byeong-Uk Lee, Jae Won Cho, Dong-Jin Kim, In So Kweon
- A work on benchmarking continuous sign language recognition (CSLR) task on new environments.
YeongJun Jang, Youngtaek Oh, Jae Won Cho, Dong-Jin Kim, In So Kweon

ACADEMIC SERVICE

Conference Reviewer

- European Conference on Computer Vision (ECCV): 2022 (9 papers)
- Conference on Computer Vision and Pattern Recognition (CVPR): 2022 (2 papers)

Workshop Reviewer

- Workshop on Learning with Limited Labelled Data for Image and Video Understanding (CVPRW): 2022 (4 papers)

SELECTED HONORS

Recipient , KAIST Scholarship	Sep. 2021 - Present
Recipient , Korea Government Scholarship	Mar. 2019 - Feb. 2021
Recipient , 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)