

Youngtaek Oh

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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*. Also, I have a broad interest in techniques for learning general representations and improving model's robustness to distribution shifts, such as *uni-/multi-modal representation learning*, *domain generalization*, etc.

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

- 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, 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*, Hyokyoung 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)

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)

TECHNICAL SKILLS

Programming: C, Python, Pytorch