

# Youngtaek Oh

PhD Student, Electrical Engineering, KAIST.

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## RESEARCH INTEREST

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My research focuses on data-hungry problems (e.g., semi-supervised learning) and bias in data labels (e.g., class-imbalance) for deep neural networks. I also have a broad interest in learning general representations (e.g., self-supervised learning) and improving model's robustness to distribution shifts (e.g., domain generalization).

## EDUCATION

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<b>Korea Advanced Institute of Science and Technology (KAIST)</b> Ph.D. in Electrical Engineering; Co-advisors: In So Kweon and Junmo Kim	Daejeon, South Korea Sep. 2021 – Present
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> M.S. in Electrical Engineering; Advisor: In So Kweon ◦ Thesis: Robust Semi-Supervised Learning to Label Bias	Daejeon, South Korea Mar. 2019 – Feb. 2021
<b>Korea University</b> B.S. in Electrical Engineering; GPA: 4.40/4.5	Seoul, South Korea Mar. 2015 – Feb. 2019

## WORK EXPERIENCE

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

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### 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

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### 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

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<b>Recipient</b> , KAIST Scholarship	Sep. 2021 - Present
<b>Recipient</b> , Korea Government Scholarship	Mar. 2019 - Feb. 2021
<b>Recipient</b> , National Scholarship for Science and Engineering	Mar. 2017 - Feb. 2019

## TEACHING

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### 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)