

Youngtaek Oh

PhD Student, Electrical Engineering, KAIST.

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RESEARCH INTEREST

My research interest aims to build robust recognition system for image and video understanding under limited and/or biased data. Towards this goal, I have been working on data-efficient learning techniques in image and video domain. In addition, I have interest in vision and language models, specifically for enhancing visual understanding tasks.

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

LG AI Research Research Internship	Seoul, South Korea Sep. 2023 – Feb. 2024
Korea Advanced Institute of Science and Technology (KAIST) Researcher, Robotics and Computer Vision Lab.	Daejeon, South Korea Mar. 2021 – Aug. 2021

PUBLICATION

- [W1] Exploring the Spectrum of Visio-Linguistic Compositionality and Recognition
Youngtaek Oh, Pyunghwan Ahn, Jinhyung Kim, Gwangmo Song, Soonyoung Lee, In So Kweon, Junmo Kim
◦ *CVPR Workshop on What is Next in Multimodal Foundation Models? (MMFM2)*, 2024
- [J1] Empirical Study on Using Adapters for Debaised Visual Question Answering
Jae Won Cho, Dawit Mureja Argaw, **Youngtaek Oh**, Dong-Jin Kim, In So Kweon
◦ *Computer Vision and Image Understanding (CVIU)*, 2023.
- [C5] 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.
- [C4] 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.
- [C3] 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.
- [C2] 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.
- [C1] SideGuide: A Large-scale Sidewalk Dataset for Guiding Impaired People
Kibaek Park*, **Youngtaek Oh***, Soomin Ham*, Kyungdon Joo*, Hyokyoun Kim, Hyoyoung Kum, In So Kweon
◦ *International Conference on Intelligent Robots and Systems (IROS)*, 2020.

HONORS AND AWARDS

Top 3% Recognition Certificates, ICASSP 2023	June 2023
2nd place in NICE Challenge (\$5000), NICE Workshop at CVPR 2023	May 2023
Finalist, Qualcomm Innovation Fellowship Korea	Nov. 2022
Outstanding Reviewer Award, ECCV 2022	Oct. 2022
National Scholarship for Science and Engineering	Mar. 2017 - Feb. 2019

Conference Reviewer

International Conference on Acoustics, Speech, and Signal Processing (ICASSP)	2024– <i>Present</i>
Winter Conference on Applications of Computer Vision (WACV)	2024– <i>Present</i>
International Conference on Learning Representations (ICLR)	2024– <i>Present</i>
Conference on Neural Information Processing Systems (NeurIPS)	2023– <i>Present</i>
International Conference on Computer Vision (ICCV)	2023– <i>Present</i>
Conference on Computer Vision and Pattern Recognition (CVPR)	2022– <i>Present</i>
European Conference on Computer Vision (ECCV)	2022– <i>Present</i>

Journal Reviewer

International Journal of Computer Vision (IJCV)	2024
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