

RESEARCH INTERESTS

- **Deep Learning**; Learning with multiple dataset, Learning with minimal human supervision
- **Computer Vision**; Image/Video understanding and processing

RESEARCH EXPERIENCES

Adobe Research (Remote) Research Intern, Deep Learning Group, Creative Intelligence Lab	San Jose, CA Apr.2021–Dec.2021
Korea Advanced Institute of Science and Technology (KAIST) Research Assistant, Robotics and Computer Vision Lab	Daejeon, Korea Mar.2018–Present

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Ph.D. in Electrical Engineering Advisor: Prof. In So Kweon	Daejeon, Korea Sep.2019–Present
Korea Advanced Institute of Science and Technology (KAIST) M.S. in Electrical Engineering Advisor: Prof. In So Kweon – Thesis: “Learning unpaired video-to-video translation for domain adaptation”	Daejeon, Korea Mar.2018–Aug.2019
Korea Advanced Institute of Science and Technology (KAIST) B.S., double major in Mechanical Engineering and Electrical Engineering	Daejeon, Korea Mar.2013–Feb.2018

PUBLICATIONS

(* indicates equal contributions)

- Bidirectional Domain Mixup for Domain Adaptive Semantic Segmentation
Daehan Kim, Minseok Seo*, **Kwanyong Park**, Inkyu Shin, Sanghyun Woo, In So Kweon, Dong-Geol Choi*
Association for the Advancement of Artificial Intelligence (AAAI), 2023
- Learning Classifiers of Prototypes and Reciprocal Points for Universal Domain Adaptation
*Sungsu Hur, Inkyu Shin, **Kwanyong Park**, Sanghyun Woo, In So Kweon*
Winter Conference on Applications of Computer Vision (WACV), 2023
- Self-supervised Monocular Depth Estimation from Thermal Images via Adversarial Multi-spectral Adaptation
*Ukcheol Shin, **Kwanyong Park**, Byeong-Uk Lee, Kyunghyun Lee, In So Kweon*
Winter Conference on Applications of Computer Vision (WACV), 2023
– *Received WACV Best Student Paper.*
- A Unified Learning Framework for Large Vocabulary Video Object Detection
*Sanghyun Woo, **Kwanyong Park**, Seoung Wug Oh, In So Kweon, Joon-Young Lee*
European Conference on Computer Vision (ECCV), 2022

- Tracking by Associating Clips
*Sanghyun Woo, **Kwanyong Park**, Seoung Wug Oh, In So Kweon, Joon-Young Lee*
European Conference on Computer Vision (ECCV), 2022
- Per-Clip Video Object Segmentation
***Kwanyong Park**, Sanghyun Woo, Seoung Wug Oh, In So Kweon, Joon-Young Lee*
Conference on Computer Vision and Pattern Recognition (CVPR), 2022
- Unsupervised Domain Adaptation for Video Semantic Segmentation
***Kwanyong Park**^{*}, Inkyu Shin^{*}, Sanghyun Woo, In So Kweon*
arXiv, 2021
- LabOR: Labeling Only if Required for Domain Adaptive Semantic Segmentation
*Inkyu Shin, Dong-Jin Kim, Jae Won Cho, Sanghyun Woo, **Kwanyong Park**, In So Kweon*
International Conference on Computer Vision (ICCV), 2021 (**Oral**)
- Received Qualcomm Innovation Award 2021.
- Discover, Hallucinate, and Adapt: Open Compound Domain Adaptation for Semantic Segmentation
***Kwanyong Park**, Sanghyun Woo, Inkyu Shin, In So Kweon*
Neural Information Processing Systems (NeurIPS), 2020
- Received Qualcomm Innovation Award 2021.
- Align-and-Attend Network for Globally and Locally Coherent Video Inpainting
*Sanghyun Woo, Dahun Kim, **Kwanyong Park**, Joon-Young Lee, In So Kweon*
British Machine Vision Conference (BMVC), 2020
- Preserving Semantic and Temporal Consistency for Unpaired Video-to-Video Translation
***Kwanyong Park**, Sanghyun Woo, Dahun Kim, Donghyeon Cho and In So Kweon*
ACM Multimedia (MM), 2019

REVIEWER EXPERIENCES

- Conference on Computer Vision and Pattern Recognition (CVPR): 2022,2023
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI): 2022
- European Conference on Computer Vision (ECCV): 2022
- Association for the Advancement of Artificial Intelligence (AAAI): 2023
- British Machine Vision Conference (BMVC): 2020,2021

AWARDS & HONORS

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|---|-------------------|
| • WACV Best Student Paper Awards | Jan.2023 |
| • Qualcomm Innovation Fellowship | Nov.2021 |
| • KAIST Scholarship | Sep.2019–Present |
| • SIGMM Student Travel Grants | Nov.2019 |
| • Korea Government Scholarship | Mar.2018–Aug.2019 |
| • Best M.S students, Eun Chong-Kwan Scholarship | Mar.2018 |

TEACHING

Teaching Assistant at KAIST EE

- EE405 Electronics Design Lab.<Network of Smart Things> (Spring, 2019)
- EE209 Programming Structure for Electrical Engineering (Fall, 2018)
- EE305 Introduction to Electronics Design Lab. (Fall, 2018)

COMPUTER SKILLS

- **Language:** Python, Matlab, C
- **Libraries:** PyTorch

REFERENCES

Prof. In So Kweon (M.S. - Ph.D. advisor at KAIST)

KEPCO Chair Professor, School of Electrical Engineering, KAIST

Email: iskweon77@kaist.ac.kr

Dr. Joon-Young Lee (Internship mentor)

Senior Research Scientist, Adobe Research

Email: jolee@adobe.com

Dr. Seoung Wug Oh (Internship mentor)

Research Scientist, Adobe Research

Email: seoh@adobe.com