

## RESEARCH INTERESTS

---

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

## RESEARCH EXPERIENCES

---

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

## EDUCATION

---

<b>Korea Advanced Institute of Science and Technology (KAIST)</b> Ph.D. in Electrical Engineering Advisor: Prof. In So Kweon	Daejeon, Korea Sep.2019–Aug.2023
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> 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
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> B.S., double major in Mechanical Engineering and Electrical Engineering	Daejeon, Korea Mar.2013–Feb.2018

## PUBLICATIONS

---

(\* indicates equal contributions)

- Test-time Adaptation in the Dynamic World with Compound Domain Knowledge Management  
*Junha Song, **Kwanyong Park**, Inkyu Shin, Sanghyun Woo, Chaoning Zhang, and In So Kweon*  
Robotics and Automation Letters (RA-L), 2024  
International Conference on Robotics and Automation (ICRA), 2024
- Joint Self-supervised Learning and Adversarial Adaptation for Monocular Depth Estimation from Thermal Image  
*Ukcheol Shin, **Kwanyong Park**, Byeong-Uk Lee, Kyunghyun Lee, In So Kweon*  
Machine Vision and Applications (MVA), 2023
- Mask-guided Matting in the Wild  
***Kwanyong Park**, Sanghyun Woo, Seoung Wug Oh, In So Kweon, Joon-Young Lee*  
Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- 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) (**Best Student Paper**), 2023
- 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**<sup>\*</sup>, Inkyu Shin<sup>\*</sup>, 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) (**Oral**), 2021  
- 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

---

- 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