

INTRO.

I am a PhD student at KAIST, advised by Prof. Seungryong Kim. My main research interest is general video perception, especially Track Any Point (point tracking) and vision-language understanding, and their applications to 3D/4D perception and reconstruction. I am closely working with Joon-Young Lee and Gabriel Huang at Adobe through a couple of internships, and before that, I collaborated with Google Research and Microsoft Research Asia (MSRA).

INTERNSHIPS

NVIDIA Research | Santa Clara, CA, USA 2025.06 - 2025.08 (Expected)
• Mentors: Orazio Gallo, Abhishek Badki, Hang Su, and Jindong Jiang.

Adobe Research | San Jose, CA, USA 2024.06 - 2024.09
• Mentors: Gabriel Huang and Joon-Young Lee.

Adobe Research | San Jose, CA, USA 2023.06 - 2023.09
• Mentors: Joon-Young Lee and Gabriel Huang.

PUBLICATIONS

1. Seokju Cho, Jiahui Huang, Seungryong Kim, and Joon-Young Lee, “Seurat: From Moving Points to Depth”,
IEEE Conference on Computer Vision Pattern Recognition (CVPR), **Highlight**, 2025. [Link]
2. Inès Hyeonsu Kim*, Seokju Cho*, Jiahui Huang, Jung Yi, Joon-Young Lee, and Seungryong Kim, “Exploring Temporally-Aware Features for Point Tracking”,
IEEE Conference on Computer Vision Pattern Recognition (CVPR), 2025. [Link]
3. Kihong Kim*, Yunho Kim*, Seokju Cho, Junyoung Seo, Jisu Nam, Kychul Lee, Seungryong Kim, and KwangHee Lee, “DiffFace: Diffusion-based Face Swapping with Facial Guidance”,
Pattern Recognition (PR), 2025. [Link]
4. Sangbeom Lim*, Seongchan Kim*, Seungjun An*, Seokju Cho, Paul Hongsuck Seo, Seungryong Kim, “Multi-Granularity Video Object Segmentation”,
AAAI Conference on Artificial Intelligence (AAAI), 2025. [Link]
5. Heeseong Shin, Chaehyun Kim, Sunghwan Hong, Seokju Cho, Anurag Arnab, Paul Hongsuck Seo, Seungryong Kim, “Towards Open-Vocabulary Semantic Segmentation Without Semantic Labels”,
Neural Information Processing Systems (NeurIPS), 2024. [Link]
6. Seokju Cho, Jiahui Huang, Jisu Nam, Honggyu An, Seungryong Kim, and Joon-Young Lee, “Local All-Pair Correspondence for Point Tracking”,
European Conference on Computer Vision (ECCV), 2024. [Link]
7. Seokju Cho, Jiahui Huang, Seungryong Kim, and Joon-Young Lee, “FlowTrack: Revisiting Optical Flow for Long-Range Dense Tracking”,
IEEE Conference on Computer Vision Pattern Recognition (CVPR), 2024. [Link]
8. Seokju Cho*, Heeseong Shin*, Sunghwan Hong, Anurag Arnab, Paul Hongsuck Seo, and Seungryong Kim, “CAT-Seg: Cost Aggregation for Open-Vocabulary Semantic Segmentation”,
IEEE Conference on Computer Vision Pattern Recognition (CVPR), **Highlight**, 2024. [Link]
9. Sunghwan Hong*, Seokju Cho*, Seungryong Kim, Stephen Lin, “Unifying Feature and Cost Aggregation with Transformers for Dense Correspondence”,
International Conference on Learning Representations (ICLR), 2024. [Link]
10. Jiuhn Song*, Seonghoon Park*, Honggyu An*, Seokju Cho, Min-Seop Kwak, Sungjin Cho, and Seungryong Kim, “DāRF: Boosting Radiance Fields from Sparse Inputs with Monocular Depth Adaptation”,
Neural Information Processing Systems (NeurIPS), 2023. [Link]
11. Jihye Park*, Sunwoo Kim*, Soohyun Kim*, Seokju Cho, Jaejun Yoo, Youngjung Uh, and Seungryong Kim, “LANIT: Language-Driven Image-to-Image Translation for Unlabeled Data”,
IEEE Conference on Computer Vision Pattern Recognition (CVPR), 2023. [Link]
12. Junyoung Seo*, Gyuseong Lee*, Seokju Cho, Jiyoung Lee, Seungryong Kim, “MIDMs: Matching Interleaved Diffusion Models for Exemplar-based Image Translation”,
AAAI Conference on Artificial Intelligence (AAAI), 2023. [Link]

13. **Seokju Cho***, Sunghwan Hong*, Seungryong Kim, “CATs++: Boosting Cost Aggregation with Convolutions and Transformers”,
IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI), 2023. [Link]
14. Sunghwan Hong, Jisu Nam, **Seokju Cho**, Susung Hong, Sangryul Jeon, Dongbo Min, and Seungryong Kim, “Neural Matching Fields: Implicit Representation of Matching Fields for Visual Correspondence”,
Neural Information Processing Systems (NeurIPS), 2022. [Link]
15. Sunghwan Hong*, **Seokju Cho***, Jisu Nam, Stephen Lin, Seungryong Kim, “Cost Aggregation with 4D Convolutional Swin Transformer for Few-Shot Segmentation”,
European Conference on Computer Vision (ECCV), 2022. [Link]
16. **Seokju Cho***, Sunghwan Hong*, Sangryul Jeon, Yunsung Lee, Kwanghoon Sohn, Seungryong Kim, “CATs: Cost Aggregation Transformers for Visual Correspondence”,
Neural Information Processing Systems (NeurIPS), 2021. [Link]

AWARDS AND HONORS

- **Google East Asia Student Travel Grants for CVPR**, 2024.06
- **3rd Place Award in AI Online Competition**, Ministry of Science and ICT & National IT Industry Promotion Agency, Won 300M KRW, 2023.05

ACADEMIC SERVICES

Reviewers for: CVPR (2023, 2024, 2025),
ECCV (2024),
ICCV (2025),
NeurIPS (2023).

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)	Seoul, Korea
<i>Integrated M.S./Ph.D. in Artificial Intelligence</i>	2024 - 2027 (<i>expected</i>)
Korea University	Seoul, Korea
<i>Integrated M.S./Ph.D. in Computer Science and Engineering</i>	2022 - 2024
• Transferred to KAIST with supervisor (degree incomplete).	
Yonsei University	Seoul, Korea
<i>B.S. in Computer Science</i>	2018 - 2022