

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

Seoul, Korea

Integrated M.S./Ph.D. in Artificial Intelligence

2024 - 2028 (*expected*)

- Advisor: Prof. Seungryong Kim
- Research area: Computer Vision

Korea University

Seoul, Korea

Integrated M.S./Ph.D. in Computer Science and Engineering

2022 - 2024

- Transferred to KAIST with supervisor (degree incomplete).

Yonsei University

Seoul, Korea

B.S. in Computer Science

2018 - 2022

INTERNSHIPS

Adobe Research | San Jose, CA, USA

2024.06 - 2024.09

- Mentors: Gabriel Huang, Joon-Young Lee

Adobe Research | San Jose, CA, USA

2023.06 - 2023.09

- Mentors: Joon-Young Lee, Gabriel Huang
- Worked on ‘Revisiting Optical Flow for Long-Range Dense Tracking,’ CVPR 2024.

PUBLICATIONS

1. 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.
2. **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.
3. **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.
4. **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.
5. 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.
6. Jiuhun Song^{*}, Seonghoon Park^{*}, Honggyu An^{*}, **Seokju Cho**, Min-Seop Kwak, Sungjin Cho, and Seungryong Kim, “D_aRF: Boosting Radiance Fields from Sparse Inputs with Monocular Depth Adaptation”,
Neural Information Processing Systems (NeurIPS), 2023.
7. 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.
8. 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.
9. **Seokju Cho**^{*}, Sunghwan Hong^{*}, Seungryong Kim, “CATs++: Boosting Cost Aggregation with Convolutions and Transformers”,
IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI), 2023.

10. 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.
11. 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.
12. **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.

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

SKILLS

Languages: Korean (Native), English (Professional).
Programming: Python, C++, MATLAB.

ACADEMIC SERVICES

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