

# SEOKJU CHO

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## RESEARCH INTEREST

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Deep Learning, Computer Vision, Correspondence on Video, Dense Visual Correspondence, Open-Vocabulary Recognition

## EDUCATION

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**Korea University** Mar. 2022 - Present  
Integrated M.S./Ph.D. in Computer Science and Engineering *Seoul, Korea*

**Yonsei University** Mar. 2018 - Feb. 2022  
B.S. in Computer Science *Seoul, Korea*

## EXPERIENCE

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**Adobe** May 2024 - Aug. 2024 (Expected)  
*Research Intern San Jose, CA, United States*

- Mentors: Gabriel Huang, Joon-Young Lee

**Adobe** June 2023 - Sep. 2023  
*Research Intern San Jose, CA, United States*

- Worked on “Revisiting Optical Flow for Long-Range Dense Tracking”, presented at CVPR 2024
- Mentors: Joon-Young Lee, Gabriel Huang

## PUBLICATION

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**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.

**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]

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]

Jiuhn Song\*, Seonghoon Park\*, Honggyu An\*, **Seokju Cho**, Min-Seop Kwak, Sungjin Cho, and Seungryong Kim, “DäRF: Boosting Radiance Fields from Sparse Inputs with Monocular Depth Adaptation”,  
*Neural Information Processing Systems (NeurIPS)*, 2023. [Link]

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]

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]

**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]

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\* denotes equal contribution.

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]

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]

**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]

## ACADEMIC SERVICES

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### Reviewer

- 2024 - CVPR
- 2023 - CVPR, NeurIPS

## HONORS

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Ministry of Science and ICT & National IT Industry Promotion Agency      Sep. 2021  
*3rd Place Award, AI Online Competition, Won 300M KRW*

## TECHNICAL STRENGTHS

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<b>DL, ML</b>	PyTorch, Numpy, JAX
<b>Programming</b>	Python, JavaScript, C/C++
<b>Web Framework</b>	React, Node.js, Flask