JISU NAM

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RESEARCH INTEREST

I am interested in general perception for images and videos, particularly correspondence in image and video (image matching and point tracking). Recently, I have been working on large-scale image/video generative models, analyzing their learned representations in the context of correspondence—ultimately to understand, enhance, and manipulate the synthesis process.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Sep. 2024 - Present
M.S./Ph.D. in Artificial Intelligence *Seoul, Korea*
Supervisor: Seungryong Kim

Korea University Sep. 2022 - Aug. 2024 (Incompleted)
M.S./Ph.D. in Computer Science and Engineering *Seoul, Korea*
Supervisor: Seungryong Kim

Korea University Mar. 2018 - Aug. 2022
B.S. in Biomedical Engineering and Artificial Intelligence (Double Majors) *Seoul, Korea*

EXPERIENCE

Adobe Research May. 2025 - Aug. 2025 (Expected)
Research Intern *San Jose, California*
Mentors: Yang Zhou

Adobe Research May. 2024 - Aug. 2024
Research Intern *San Jose, California*
Mentors: Yang Zhou, Zhan Xu, Jing Shi, Difan Liu, Feng Liu
Project: Foundation Model for Consistent Full-Body Human Generation [C7]

Naver Cloud Apr. 2023 - Oct. 2023
Research Intern *Seoul, Korea*
Mentors: Seunggyu Chang, Heesu Kim, DongJae Lee
Project: Training-free Semantically Consistent Image Generation [C4]

PUBLICATION

(P: Preprint, C: Conference, J: Journal, *: Co-first Author, ‡: Co-corresponding Author)

[P1] Appearance Matching Adapter for Exemplar-based Semantic Image Synthesis
Siyoon Jin, **Jisu Nam**, Jiyoung Kim, Dahyun Chung, Yeong-Seok Kim, Joonhyung Park, HeonJeong Chu, Seungryong Kim
arXiv, 2025
Keywords: Controllable Image Synthesis, Image Matching

[C7] Visual Persona: Foundation Model for Full-Body Human Customization
Jisu Nam, Soowon Son, Zhan Xu, Jing Shi, Difan Liu, Feng Liu, Seungryong Kim‡, Yang Zhou‡
Conference on Computer Vision Pattern Recognition (**CVPR**), 2025
Keywords: Foundation Model, Consistent Image Generation

[J1] DiffFace: Diffusion-based Face Swapping with Facial Guidance
Kihong Kim*, Yunho Kim*, Seokju Cho, Junyoung Seo, **Jisu Nam**, Kychul Lee, Seungryong Kim‡, KwangHee Lee‡
Pattern Recognition (**PR**), 2025
Keywords: Face Swapping, Diffusion Model

[C6] MoDiTalker: Motion-Disentangled Diffusion Model for High-Fidelity Talking Head Generation
Seyeon Kim*, Siyoon Jin*, Jihye Park*, Kihong Kim, Jiyoung Kim, **Jisu Nam**, Seungryong Kim
Association for the Advancement of Artificial Intelligence (**AAAI**), 2025
Keywords: Talking Head Generation, Diffusion Model

[C5] Local All-Pair Correspondence for Point Tracking
Seokju Cho, Jiahui Huang, **Jisu Nam**, Honggyu An, Seungryong Kim‡, Joon-Young Lee‡
European Conference on Computer Vision (**ECCV**), 2024
Keywords: Point Tracking

[C4] DreamMatcher: Appearance Matching Self-Attention for Semantically-Consistent Text-to-Image Customization
Jisu Nam, Heesu Kim, DongJae Lee, Siyoon Jin, Seungryong Kim‡, Seunggyu Chang‡
Conference on Computer Vision Pattern Recognition (**CVPR**), 2024
Keywords: Consistent Image Generation, Image Matching

[C3] Diffusion Model for Dense Matching
Jisu Nam, Gyuseong Lee, Sunwoo Kim, Hyeonsu Kim, Hyoungwon Cho, Seyeon Kim, Seungryong Kim
International Conference on Learning Representations (**ICLR**), 2024 **(Oral, 1.2% acceptance rate)**
Keywords: Image Matching, Diffusion Model

[C2] Neural Matching Fields: Implicit Representation of Matching Fields for Image Matching
Sunghwan Hong, **Jisu Nam**, Seokju Cho, Susung Hong, Sangryul Jeon, Dongbo Min, Seungryong Kim
Neural Information Processing Systems (**NeurIPS**), 2022
Keywords: Image Matching, Implicit Neural Representation

[C1] Cost Aggregation with 4D Convolutional Swin Transformer for Few-Shot Segmentation
Sunghwan Hong*, Seokju Cho*, **Jisu Nam**, Stephen Lin, Seungryong Kim
European Conference on Computer Vision (**ECCV**), 2022
Keywords: Few-shot Segmentation, Image Matching

HONORS

37th Workshop on Image Processing and Image Understanding, KIBME 2025
Best Paper Award

37th Workshop on Image Processing and Image Understanding, KIBME 2025
Best Poster Presentation Award

Qualcomm Innovation Fellowship 2024, Qualcomm 2024
Winner

33th Artificial Intelligence and Signal Processing, IEIE 2023
Best Paper Award