

# JISU NAM

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## RESEARCH INTEREST

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Diffusion Models, Text-to-Image/Video Customization, Image Matching

## EDUCATION

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**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

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**Adobe** May. 2024 - Aug. 2024  
Research Intern *San Jose, California*  
Mentors: Yang Zhou, Feng Liu, Jing Shi, Difan Liu, Zhan Xu  
Project: Encoder-based Consistent Human Character Customization

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

## PUBLICATION

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(P: Preprint, C: Conference, \*: Co-first author, ‡: Co-corresponding author)

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

**[P2] 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  
*Preprint*, 2024  
Keywords: Diffusion Models, Talking Head Generation

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

**[C3] Diffusion Model for Dense Matching**

**Jisu Nam**, Gyuseong Lee, Sunwoo Kim, Hyeonsu Kim, Hyounghwon Cho, Seyeon Kim, Seungryong Kim

*International Conference on Learning Representations (ICLR)*, 2024 **(Oral, 1.2% acceptance rate)**

Keywords: Diffusion Models, Image Matching

**[P1] DiffFace: Diffusion-based Face Swapping with Facial Guidance**

Kihong Kim<sup>\*</sup>, Yunho Kim<sup>\*</sup>, Seokju Cho, Junyoung Seo, **Jisu Nam**, Kychul Lee, Seungryong Kim<sup>‡</sup>, KwangHee Lee<sup>‡</sup>

*Preprint*, 2022

Keywords: Diffusion Models, Face Swapping

**[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<sup>\*</sup>, Seokju Cho<sup>\*</sup>, **Jisu Nam**, Stephen Lin, Seungryong Kim

*European Conference on Computer Vision (ECCV)*, 2022

Keywords: Image Matching, Few-shot Segmentation

**HONORS**

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

2023