

# JIYOUNG KIM

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## RESEARCH INTEREST

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My research focuses on visual generation across images and video. I study how generative models form internal representations, and how those representations can be designed, analyzed, and guided to improve efficiency, controllability, and fidelity. I am also interested in correspondence-driven learning, such as image matching and dense alignment, as a way to connect perception and synthesis.

## EDUCATION

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| <b>Korea Advanced Institute of Science and Technology (KAIST)</b><br>Integrated M.S./Ph.D. in Artificial Intelligence<br>Supervisor: <a href="#">Seungryong Kim</a> | Mar. 2025 - Present<br><i>Seoul, Korea</i>   |
| <b>Korea University</b><br>B.S. in Computer Science and Engineering                                                                                                 | Mar. 2020 - Feb. 2025<br><i>Seoul, Korea</i> |

## EXPERIENCE

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| <b>Kakao Corp.</b><br>Research Intern<br>Collaborators: Donghoon Lee, Hyunsung Go, Yeonkyeong Lee, Hansaem Kim<br>Project: Generation-aware Latent Compression for Efficient Video Generation [U1] | Mar. 2026 - Dec. 2026<br><i>Seongnam, Korea</i>       |
| <b>NC AI</b><br>Research Collaboration<br>Collaborators: Jongjae Park, Hyeonwoo Kang<br>Project: Correspondence Alignment for Virtual Try-On [C7]                                                  | Mar. 2025 - Dec. 2025<br><i>Seoul, Korea (Remote)</i> |

## PUBLICATION

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(P: Preprint, C: Conference, J: Journal, U: Under Review \*: Co-first, ‡: Co-corresponding)

**[U1] GRACE: Generation-aware Latent Compression for Efficient Video Generation**

**Jiyoung Kim**, Paul Hyunbin Cho, Jisu Nam, Donghoon Lee, Hyunsung Go, Yeonkyeong Lee, Hansaem Kim, Seungryong Kim

arXiv:2610.10524, 2026 (under review) [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C7] CORAL: Correspondence Alignment For Improved Virtual Try-On**

**Jiyoung Kim**, Youngjin Shin, Siyoon Jin, Dahyun Chung, Jisu Nam, Tongmin Kim, Jongjae Park, Hyeonwoo Kang, Seungryong Kim

*Neural Information Processing Systems (NeurIPS)*, 2026 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C6] WorldCam: Interactive Autoregressive 3D Gaming Worlds with Camera Pose as a Unifying Geometric Representation**

Jisu Nam, Yicong Hong, Chun-Hao Paul Huang, Feng Liu, JoungBin Lee, **Jiyoung Kim**, Siyoon Jin, Yunsung Lee, Jaeyoon Jung, Suhwan Choi, Seungryong Kim, Yang Zhou

*Workshop on Video World Model: Interaction, Memory, and Efficiency @ CVPR (CVPRW)*, 2026 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C5] MATRIX: Mask Track Alignment for Interaction-Aware Video Generation**

Siyoon Jin, Seongchan Kim, Dahyun Chung, Jaeho Lee, Hyunwook Choi, Jisu Nam, **Jiyoung Kim**, Seungryong Kim

*International Conference on Learning Representations (ICLR)*, 2026 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C4] Emergent Temporal Correspondences from Video Diffusion Transformers**

Jisu Nam\*, Soowon Son\*, Dahyun Chung, **Jiyoung Kim**, Siyoon Jin, Junhwa Hur<sup>‡</sup>, Seungryong Kim<sup>‡</sup>

*Neural Information Processing Systems (NeurIPS)*, 2025 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C3] K/DA: Automated Data Generation Pipeline for Detoxifying Implicitly Offensive Language in Korean**

Minkyong Jeon\*, Hyemin Jeong\*, Yerang Kim, **Jiyoung Kim**, Jae Hyeon Cho, Byung-Jun Lee

*Association for Computational Linguistics (ACL)*, 2025 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C2] 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

*International Conference on Computer Vision (ICCV)*, 2025 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

**[C1] 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 [\[arXiv\]](#) [\[code\]](#) [\[project page\]](#)

## ACADEMIC SERVICES

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**Reviewer** ICLR 2026, 2027 · ECCV 2026