Chanhyuk Choi

M.S. Student in Artificial Intelligence
Ulsan National Institute of Science and Technology (UNIST)
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Education

•Ulsan National Institute of Science and Technology (UNIST) *2025 - present*
Integrated M.S./Ph.D. Program in Artificial Intelligence GPA: 4.23/4.30
(Advisor) Prof. Taehwan Kim

•Ulsan National Institute of Science and Technology *2018 - 2025*
B.S. in Computer Science and Engineering GPA: 3.71/4.30

Research Interests

•Computer Vision & Multimodal Learning
Audio-driven Human Animation, Talking Face Generation, Co-speech Gesture Generation, Emotion-aware Video Generation

•Generative Modeling
Diffusion, Flow Matching, Drifting

Preprint

[1] **Chanhyuk Choi**, Insu Park, and Taehwan Kim. "Expressive Co-speech Gesture Generation with Temporal Affective Dynamics" *Submiited to the Association for the Advancement of Artificial Intelligence (AAAI)*, 2027.

Publications

[1] **Chanhyuk Choi**, Taesoo Kim, Dongyu Lee, Siyeol Jung, and Taehwan Kim. "Cross-Modal Emotion Transfer for Emotion Editing in Talking Face Video" *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2026.

[2] Hyeonyu Kim, Seokhoon Jeong, Seonghee Han, **Chanhyuk Choi**, and Taehwan Kim. "Audio-Guided Visual Editing with Complex Multi-Modal Prompts" *36th British Machine Vision Conference (BMVC)*, 2025.

Patents

[1] **Chanhyuk Choi**, Solgil Oh, Yeeun Chun, Seun Park, Byung-hak Kim. "Method and Device for Generating Natural Language-based Training Data Using Video and Script Files and Performing Image Generation and Inference Using the Training Data" (Application Number: 18-784,742) *US*, 2024/07/28.

[2] Byung-hak Kim, Seun Park, Kyongmook Lim, Jungjum Kim, Dongil Shin, Yeeun Chun, **Chanhyuk Choi**, Emma Bergqvist, Gyuwon Park. "Method for Providing Box Office Prediction Results through Analysis of Text Content and Apparatus Therefor" (Application Number: 18-396,247) *US*, 2023/12/26.

Scholarships and Awards

•UNIST Academic Performance Scholarship *Mar. 2018 - Aug. 2024*
Full Scholarship Ulsan, KR

•OCR AI Data Hackathon *Dec. 2021*
Finalist (Top 10.) Seoul, KR

Experience

•Research Intern *Aug. 2023 - Feb. 2024*
AI Center @ CJ OliveNetworks Seoul, KR
– Developed the first Stable Diffusion-based framework for generating K-drama highlight images from summarized scenarios
– (Advisor) Dr. Byung-Hak Kim

•Undergraduate Researcher *Jul. 2023 - Aug. 2023*
ShapeLab @ UNIST Ulsan, KR
– Developed an age prediction and Alzheimer's disease classification model based on SPHARM-Net.
– (Advisor) Prof. Ilwoo Lyu

•Undergraduate Researcher *Oct. 2021 - Dec. 2021*
AICP @ UNIST Ulsan, KR
– Conducted research on GAN manipulation using user inputs, such as sketch and text.
– (Advisor) Prof. Jaejun Yoo

Professional Activities

•AAAI Reviewer *2026, 2027*