Chanhyuk **Choi**

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Education

UNIST(Ulsan National Institute of Science and Technology)   *Ulsan, S.Korea*
M.S. STUDENT IN AI GRADUATE SCHOOL   *Mar. 2025 - Present*
- Research Interest: Multimodal learning, Generative models

UNIST (Ulsan National Institute of Science and Technology)   *Ulsan, S.Korea*
B.S. IN COMPUTER SCIENCE AND ENGINEERING   *Mar. 2018 - Feb. 2025*
- 3.71 / 4.3 (GPA), 3.82 / 4.3 (Major)
- Magna Cum Laude

Research Experience

AI Center in CJ Corp.   *Seoul, S.Korea*
AI RESEARCH INTERN   *Aug. 2023 - Feb. 2024*
- Conducted research on **stable diffusion models** that could synthesize a preview of K-drama based on a summarized scenario [PREVIEW]
- Developed a data collection pipeline that extracts high-quality images from highlight scenes in K-dramas

ShapeLab   *Ulsan, S.Korea*
AI RESEARCH INTERN   *Jul. 2023 - Aug. 2023*
- Developed a deep learning strategy to address Age Prediction and Alzheimer's Disease Classification based on SPHARM-Net
- Advisior: Prof. Ilwoo Lyu

Project

Chest X-Ray Radiology Reports Generation with Pre-trained CLIP Model   *Ulsan, S.Korea*
JUNGMIN PARK, DAMI JUNG, **CHANHYUK CHOI**   *Mar. 2023 - Jun. 2023*
- UNIST CSE402 Natural Language Processing [Github] [PDF]

All-around Fitness App Project with AI Pose correction, Work-out machine Image search   *Ulsan, S.Korea*
YONGHYUN KIM, JEONGMIN PARK, SANGEUN SEO, JAEYEOP OH, JONGMIN KIM, **CHANHYUK CHOI**   *Mar. 2022 - Jun. 2022*
- UNIST CSE333 Introduction to Human-Computer Interaction **Best Presentation Recognition** [Google Drive] [YouTube]

Certificate

Computer Specialist in SpreadSheet & Database (Level-1)   *S.Korea*
KOREA CHAMBER OF COMMERCE AND INDUSTRY   *Oct. 2021*
- Qualification Number: 21-K9-119669

Extracurricular Activity

Working Holiday   *Auckland, New Zealand*
UPPER-INTERMEDIATE LEVEL STUDENT   *Feb. 2024 - Jul. 2024*
- Auckland English Academy (AEA) [CERTIFICATE] [REPORT]

2023 ABC Winter School Program @ UNIST   *Ulsan, S.Korea*
TEACHING MENTOR   *Jan. 2023 - Feb. 2023*
- Teaching cs skills to sophomore students with missing semester @ MIT [DRIVE]

2022 AI challenger Program @ UNIST   *Ulsan, S.Korea*
RESEARCH INTERN   *Oct. 2021 - Dec. 2021*
- Conducted research on **GAN manipulation** using user inputs, such as sketch and text [POSTER]
- Advisor: Prof. Jaejoon Yoo

2021 OCR AI Learning Data Hackathon Finalist   *Seoul, S.Korea*
BACK-END DEVELOPER   *Oct. 2021 - Dec. 2021*
- Voice-based search applications for the visually impaired [PDF] [PRIZE]

Freshman Student President @ UNIST   *Ulsan, S.Korea*

SaeRok, 3rd Freshman Student Council   *Mar. 2019 - Feb. 2020*

- UNIST Freshman Council [FACEBOOK]

Patent

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   *US*

ChanHyuk Choi, SolGil Oh, YeEun Chun, SeUn Park, Byung-Hak Kim   *2024/07/28*

Application Number: 18/784,742

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   *KR*

SolGil Oh, ChanHyuk Choi, Byung-Hak Kim, SeUn Park, YeEun Chun   *2024/02/27*

Application Number: 10-2024-0028310

Method for Providing Box Office Prediction Results through Analysis of Text Content and Apparatus Therefor   *US*

Byung-Hak Kim, SeUn Park, KyongMook Lim, JungJun Kim, DongIl Shin, YeEun Chun, ChanHyuk Choi, Emma Bergqvist, GyuWon Park   *2023/12/26*

Application Number: 18/396,247

Method for Providing Box Office Prediction Results through Analysis of Text Content and Apparatus Therefor   *KR*

Byung-Hak Kim, SeUn Park, KyongMook Lim, JungJun Kim, DongIl Shin, YeEun Chun, ChanHyuk Choi, Emma Bergqvist, GyuWon Park   *2023/11/22*

Application Number: 10-2023-0163800

Presentation

Tech Presentation @ CJ AI Center   *Seoul, S.Korea*

Tech Instructor   *Aug. 2023 - Feb. 2024*

- High-Resolution Image Synthesis with Latent Diffusion Models [PPT]
- Emu: Enhancing Image Generation Models Using Photogenic Needles in a Haystack [PPT]
- Style Aligned Image Generation via Shared Attention [PPT]