

Giyun Choi — M.S. Researcher

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Education

Chung-Ang University , M.S., Image Engineering	Mar 2023 – Aug 2025
• GPA: 4.32/4.50 • Coursework: Computer Vision, Machine Learning, Deep Learning	
Korea National Open University (KNOU) , B.B.A, Business Administration	Mar 2020 – Feb 2022
• GPA: 4.10/4.50 • Coursework: Linear Algebra, Logistics and Operations Management (Statistics)	
Dong-Ah Institute of Media and Arts , Associate Degree, Broadcast Technology	Mar 2013 – Feb 2018
• GPA: 3.54/4.50 • Coursework: Video Engineering, Digital Systems, Broadcast Technology	

Experience

Research Assistant , Chung-Ang University Industry–Academic Cooperation Foundation – Seoul, Korea	Sep 2025 – Dec 2022
• Participated in an IITP-funded national R&D project focused on applied AI research • Contributed to the preparation and documentation of the Phase-2 Government-Supported AI Graduate School program proposal, including technical planning and research objectives	
Technical Department · Engineer , FOR-A – Shibuya, Japan	Jul 2020 – Jun 2022
• Served as a broadcast technology engineer supporting FOR-A Japan’s Korea branch • Delivered training on FOR-A equipment and conducted on-air demo sessions • Designed video/audio playout pipelines and managed video quality control (VQC)	
Media Services Team · Staff , UBINS – Seoul, Korea	Jul 2018 – Jun 2020
• Encoded and uploaded broadcast media content for the OTT platform Wavve (formerly Oksusu) • Administered Linux-based upload servers and performed NOC monitoring	

Publications (International)

AJAHR : Amputated Joint Aware 3D Human Mesh Recovery , International Conference on Computer Vision (ICCV)	June, 2025
<i>Giyun Choi*</i> , <i>Hyunjin Cho*</i> , Jongwon Choi (* equal contribution)	
Style Prompt Tuning for Bridging Visual Gaps in Autonomous Driving , Engineering Applications of Artificial Intelligence (EAAI)	Sep, 2025
<i>Suyeon Cha</i> , Giyun Choi , Minji Kwak, Jongwon Choi	

Publications (Domestic)

Research on a Dataset for Human Pose Estimation of Individuals with Limb Amputations and Its Applications , IEIE Summer Conference	June, 2025
<i>Giyun Choi</i> , Hyunjin Cho, Jongwon Choi	
Expansion Study of an Automatic Animation-to-Webtoon Conversion System for Applying Various Animation Styles , Outstanding Student Paper Award, IEIE Summer Conference	June, 2025
<i>Giyun Choi</i> , Chaeyun Baek, Chaewon Hong, Takhoon Kim, Gyuhyun Kim, Jongwon Choi	
Super-Resolution Detection Based on Deepfake image Manipulation Techniques and Learnable Convolutional Kernels , Journal of the IEIE (KCI)	Oct, 2025

Giyun Choi, Sunghin Yun, Jongwon Choi

[Knowledge Distillation-Based Prompt Learning Using Attention Decomposition](#),
IEIE Summer Conference

June 2024

Giyun Choi, Hyunjin Cho, Heejae Jo, Jongwook Choi, Jongwon Choi

[Adversarial Reprogramming for Unsupervised Multimodal Prompt Learning](#),
IPIU

Dec, 2004

Giyun Choi, Taehoon Kim, Suyeon Cha, Jongwon Choi,

Projects

Provenance-based detection of multimodal synthetic content and generator-model attribution (reverse detection) - IITP Mar 2025 - Nov 2025

- Building multimodal deepfake datasets (video, audio, text) and a combined multimodal dataset
- Implemented TransVCL for video deepfake retrieval based on prior paper
- Developed a LoRA fine-tuning-based deepfake text retrieval model and implemented FAISS-based retrieval

Detection Methods for Tampering in Digital Image Files) - Supreme Prosecutors Office Aug 2024 - Dec 2024

- Generated deepfake datasets using generative models such as GANs, VAEs, and diffusion models
- Generated super-resolution manipulation datasets using GANs, diffusion models, and industry-provided service models
- Developed a universal deepfake detection algorithm agnostic to the underlying generative model
- Developed a universal super-resolution manipulation detection algorithm agnostic to the underlying generative model

Optimization of CAE (Computer-Aided Engineering) Simulation Techniques) - Hyundai Mobis Apr 2024 - Aug 2024

- Developed an MC Dropout-based active learning algorithm for selecting optimal handle steering samples

Development of a User-Friendly AI Platform and Reinforcement Learning Techniques for Automatic Animation-to-Webtoon Conversion) - KOCCA Sep 2023 - Mar 2024

- Built a computer-vision algorithm to automatically select optimal webtoon cuts.
- Enhanced webtoon cut selection via ML/RL-based optimization

Research and Engineering Skills

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- Programming Languages: Python, SQLite
 - Deep Learning Frameworks: PyTorch, PyTorch Lightning, TensorFlow
 - Computer Vision: 2D / 3D Computer Vision, Human Pose Estimation, Multi-View Geometry, Face Recognition, Deepfake Detection, Synthetic Data Generation, Generative AI
 - Tools & Environment: Linux, Docker, Git

Patent

User-Friendly AI Platform and Technologies for an Automatic Animation-to-Webtoon Conversion System, Software Registration (KR), Software - C-2024-050520 Nov 2024

Fake Generator (Fake News Generator) - C-2025-050562 Nov 2025