

Hyunjin Cho

Researcher, Korea Institute of Industrial Technology(KITECH), Incheon, Republic of Korea
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RESEARCH INTERESTS

Human Pose & Shape Estimation, 3D Computer Vision, Occlusion/Amputation-aware Modeling, AI for Healthcare & Sports Science

EDUCATION

Chung-Ang University (CAU), Seoul, Republic of Korea Mar. 2023 — Aug. 2025
Master of Science in Image Engineering(AI Imaging) Cumulative GPA: 4.44/4.50
Thesis Title: A Data Synthesis Pipeline for 3D Human Mesh Recovery of Amputees
Advisor: Jongwon Choi
Visual Intelligence laboratory (VILAB@CAU)

Chung-Ang University (CAU), Seoul, Republic of Korea Mar. 2010 — Aug. 2019
Bachelor of Science in Electrical and Electronics Engineering Cumulative GPA: 3.22/4.50
Student PR Ambassador (2012)

PUBLICATIONS

(IC: International Conference, DC: Domestic Conference, *: Equal contribution, †: Equal senior role)

- [IC3] **AJAHR: Amputated Joint Aware 3D Human Mesh Recovery**
Hyunjin Cho^{*}, Giyun Choi^{*}, Jongwon Choi[†]
International Conference on Computer Vision (ICCV), Honolulu, Hawaii, USA, Oct. 2025
[Project Page]
- [IC2] **Detecting High-Fidelity Human Interactions in Large-Scale Crowds**
Jongwook Choi, Kanghee Lee, **Hyunjin Cho**, Heejae Jo, Dohee Kim, Haejun Yang, Jongwon Choi[†]
International Technical Conference on Circuits/Systems, Computers, and Communications (ITC-CSCC), Seoul, Korea, Jul. 2025
- [DC5] **Research on a Dataset for Human Pose Estimation of Individuals with Limb Amputations and Its Applications**
Giyun Choi, **Hyunjin Cho**, Jongwon Choi[†]
Summer Annual Conference of the Institute of Electronics and Information Engineers(IEIE), Jeju, Korea, Jul. 2025
- [DC4] **Occlusion Data Generation for Improving the Effectiveness of Human Pose Estimation**
Hyunjin Cho, Giyun Choi, Jongwon Choi[†]
Summer Annual Conference of IEIE, Jeju, Korea, Jun. 2025
- [DC3] **Knowledge Distillation-Based Prompt Learning Using Attention Decomposition**
Giyun Choi, **Hyunjin Cho**, Heejae Jo, Jongwook Choi, Jongwon Choi[†]
Summer Annual Conference of IEIE, Jeju, Korea, Jun. 2024
- [IC1] **Domain Generalization for Face Forgery Detection by Style Transfer**
Taehoon Kim, Jongwook Choi, **Hyunjin Cho**, HyungJun Lim, Jongwon Choi[†]
IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, USA, Jan. 2024
- [DC2] **Research on a Few-shot Interaction Classification System Based on a 3-D Pose Estimation**
Minji Kwak, **Hyunjin Cho**, Jaeyun Lee, Jongwon Choi[†]
Winter Conference of the Korean Institute of Communications and Information Sciences (KICS), Gangwon, Korea, Jan. 2024
- [DC1] **In-the-wild 3D Human Pose Estimation with Synthetic 3D data and Real 2D data**
Minji Kwak, **Hyunjin Cho**, Suyeon Cha, Jongwon Choi[†]
Summer Annual Conference of IEIE, Jeju, Korea, Jun. 2023

PROJECTS

Development of Child Anonymization and Deepfake-based Educational Content Product Seoul, Republic of Korea
Icecream Kids & SNUAI LAB Jan. 2025 — May 2025

- Developed face replacement algorithms for child face anonymization and implemented ONNX-based models and APIs.
- Built real-time content generation pipeline using face replacement between live images.
- Designed and deployed a face swap API service leveraging Linux, FastAPI, BentoML, Docker, and GitHub.

Development of Multi-user Interaction System under Low-light Environments Daejeon, Republic of Korea
Government-funded Research Project (Ministry of Culture, Sports and Tourism (MCST)) Jul. 2023 — Dec. 2024

- Collected and processed large-scale human pose data under low-light conditions for interactive gaming environments.
- Improved object detection and human pose estimation pipelines tailored for immersive multi-user spaces.
- Contributed to system design enabling end-user interaction in projection-based environments.

Generative AI based Short Film Production Project Seoul, Republic of Korea
Graduate Coursework Project, Chung-Ang University Mar. 2024 — Jun. 2024

- Collected and analyzed GenAI models for creative media production.
- Generated both static and dynamic video content (text-to-image, image-to-video) for 4 selected scenes out of 15.
- Applied super-resolution and video frame interpolation techniques for post-processing.
- Film project titled "*The Nest*" advanced to preliminary round of Gangnam AI Arts Film Festival.

RESEARCH EXPERIENCE

Korea Institute of Industrial Technology (KITECH) Incheon, Republic of Korea
Researcher Jun. 2025 — Present

- Developing defect inspection systems for industrial diamonds and pads used in semiconductor manufacturing processes.
- Researching anomaly detection for industrial applications, including dataset design and model development.
- Managing and maintaining dataset repositories to support reproducible research and collaborative development

PROFESSIONAL EXPERIENCE

FASOO Seoul, Republic of Korea
Sales Development Representative Dec. 2020 — Feb. 2023
 (Leading data security software company in Korea)

- Led business planning and product commercialization, including new product launches and market strategy development.
- Conducted presales activities for IT security solutions (DRM) and provided client-oriented technical support.
- Experienced in technology commercialization, linking research with entrepreneurship.

AWARDS & HONORS

Invited Poster Presentation, AI Symposium (Ministry of Science and ICT, MSIT) Seoul, Republic of Korea
 Presented research outcomes from the ICCV 2025 accepted paper "AJAHR" in a poster session Aug. 2025

Graduated with Academic Excellence Award Seoul, Republic of Korea
 GPA: 4.44/4.50 Aug. 2025

2nd Place, Career & Entrepreneurship Workshop Presentation Contest Seoul, Republic of Korea
 Pitched an AI-based deepfake voice detection solution for voice phishing prevention. Award included participation in *CES 2024 (Consumer Electronics Show)*, Las Vegas, USA. Aug. 2023

REFERENCES

Prof. Jongwon Choi
Associate Professor, Principal Investigator of VILAB, Graduate School of Advanced Imaging Science, Multimedia & Film, Chung-Ang University (CAU), Seoul, Republic of Korea
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