

Hyun-Woo Kim

PERSONAL INFORMATION

Nov.04.1995
37, Almata-gil, Dongjak-gu,
Seoul, Republic of Korea

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EDUCATION

Korea University

Seoul, Korea

Department of Artificial Intelligence

Mar. 2021 - Feb. 2023

- M.S. in Artificial Intelligence
- Adviser: Professor Seong-Whan Lee
- Laboratory: PRML Laboratory
- Area of Study: Computer Vision
- GPA: 4.13 / 4.50 (96.3 / 100)

Hansung University

Seoul, Korea

College of IT Engineering

Mar. 2015 - Feb. 2021

- B.S. in Division of IT Convergence Engineering
- Advisor: Professor Hee-seok Oh
- GPA: 3.57 / 4.50 (90.7 / 100)

PUBLICATIONS

- [1] **Hyun-Woo Kim**, Gun-Hee Lee, Myeong-Seok Oh, and Seong-Whan Lee, "Cross-View Self-Fusion for Self-Supervised 3D Human Pose Estimation in the Wild," in *Proceedings of the Asian Conference on Computer Vision*, 2022. **(Oral)**
- [2] **Hyun-Woo Kim**, Gun-Hee Lee, Woo-Jeoung Nam, Kyung-Min Jin, Tae-Kyung Kang, Geon-Jun Yang, and Seong-Whan Lee "MHCanonNet: Multi-Hypothesis Canonical lifting Network for self-supervised 3D human pose estimation in the wild video," in *Pattern Recognition*, 2024.
- [3] Geon-Jun Yang, Jun-Hee Kim, **Hyun-Woo Kim**, Gun-Hee Lee and Seong-Whan Lee, "EGPose: Explicit and Geometric Self-Supervision for 3D Human Pose Estimation," in *Procedia Computer Science*, 2023.
- [4] Kyung-Min Jin, Gun-Hee Lee, Woo-Jeoung Nam, Tae-Kyung Kang, **Hyun-Woo Kim**, and Seong-Whan Lee, "Masked Kinematic Correlation with Hierarchical Attention for Pose Estimation," in *Neural Networks*, 2024.
- [5] Tae-Kyung Kang, Gun-Hee Lee, Woo-Jeoung Nam, **Hyun-Woo Kim**, Kyung-Min Jin, and Seong-Whan Lee, "Calibrated Attention Masking Network for Temporal Action Localization," in *Pattern Recognition*, 2022. (Under Review)

GRANTS AND HONORS

- [1] 2021 Miso Artificial Intelligence Model Development Challenge [PA]
Grand Prize (MSIT, NIPA, MiSo) Dec. 2021
- [2] 2020 Open-Source Software Developer Competition [PM]
Sponsor Prize (MSIT, NIPA) Nov. 2020
- [3] The 16th Hansung Engineering Competitive Exhibition [PM]
Silver Prize (Hansung Univ.) Sep. 2020
- [4] The 16th Hansung Engineering Competitive Exhibition [PM]
Bronze Prize (Hansung Univ.) Sep. 2020

	[5] The 1st Hansung University C&C Festival [PM] Bronze Prize (Hansung Univ.)	Jul. 2020
	[6] The 15th Hansung Engineering Competitive Exhibition [PM] Bronze, Sponsor Prize (Hansung Univ.)	Sep. 2019
PATENTS	[1] Hyun-Woo Kim , Tae-Hyun Kim, and Jin-Myeong Je. Image-based anti-drone detection device and method using deep learning model. Korea Patent 10-2020-0080646, 2020.	
RESEARCH INTERESTS	<ul style="list-style-type: none"> • 3D Human pose estimation • Multi-camera calibration • 3D Point cloud • Mesh reconstruction • Reconstruction of 3D avatars • Reconstruction of animation-ready 3D clothed humans • Virtual try on • Stable Diffusion 	
RESEARCH EXPERIENCE	<p>Development of AI based Golf Swing Analysis Algorithm for Golf Training</p> <p>Korea University - VoiceCaddie</p> <p>May. 2021 - Oct. 2021</p> <ul style="list-style-type: none"> • Golf pose estimation model, action localization, and annotation tool • Python, C++, Pytorch and OpenCV <p>Color Image based Visual Object Tracking Algorithm Implementation and Verification</p> <p>Hansung University - ETRI</p> <p>Jul. 2020 - Nov. 2020</p> <ul style="list-style-type: none"> • Visual Object Tracking algorithms comparison and performance verification • Python, Pytorch 	
TEACHING EXPERIENCE	<p>LikeLion</p> <ul style="list-style-type: none"> • Make a Git portfolio that the interviewers like <p>Inflearn</p> <ul style="list-style-type: none"> • Make a GitHub blog in a day <p>Inflearn</p> <ul style="list-style-type: none"> • Learn by Doing, 3D Human Pose Estimation and Practical Project <p>Inflearn</p> <ul style="list-style-type: none"> • Learn by Doing, Golf swing Event Detection Using Human Pose 	<p>Online lecturer 2021</p> <p>Online lecturer 2021</p> <p>Online lecturer 2023</p> <p>Online lecturer 2023</p>
SKILLS	<p>Computer Programming</p> <ul style="list-style-type: none"> • Python, JavaScript, Java and C++ <p>Deep Learning Frameworks</p> <ul style="list-style-type: none"> • PyTorch, Tensorflow, and Keras <p>Languages</p> <ul style="list-style-type: none"> • Korean (Mother tongue) • English (OPIc - Intermediate High) 	