

Kyung-Min Jin

CONTACT INFORMATION

LG Electornics
Multimodal Task
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RESEARCH INTERESTS

Designing a novel framework in computer vision domain: In particular, I conducted research on pose estimation architectures based on transformers combined with convolutional neural networks. After joining LG, I worked on implementing body pose estimation technology to edge devices and achieving state-of-the-art performance for hand pose estimation. I also moved the team to multimodal tasks and worked on developing multimodal models.

EDUCATION

Korea University

Seoul, Korea

Department of Artificial Intelligence

Sep. 2021 - Feb. 2023

- M.S. in [Artificial Intelligence](#)
- Thesis: Kinematic Continuity-aware Masked Hierarchical Attention for Pose Estimation in Videos
- Adviser: [Seong-Whan Lee](#)
- Laboratory: [PRML Laboratory](#)
- Area of Study: Computer Vision
- GPA: 4.50 / 4.50 (100 / 100)

College of Informatics

Mar. 2016 - Aug. 2021

- B.S. in [Computer Science & Engineering](#)
GPA: 4.02 / 4.50 (94.5 / 100)
- B.S. in [Artificial Intelligence](#)
GPA: 4.17 / 4.50 (96.2 / 100)
- GPA: 3.99 / 4.50 (94.2 / 100)

PUBLICATIONS

- [1] 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," Under Review.
- [2] **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 Netw. (NN)*, 2024.
- [3] 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 Recognit. (PR)*, 2024.
- [4] **Kyung-Min Jin**, Byoung-Sung Lim, Gun-Hee Lee, Tae-Kyung Kang, and Seong-Whan Lee, "Kinematic-aware Hierarchical Attention Network for Human Pose Estimation in Videos," in *Proc. IEEE Winter Conf. Appl. Comput. Vis. (WACV)*, 2023. **(Oral)**
- [5] Tae-Kyung Kang, Gun-Hee Lee, **Kyung-Min Jin**, and Seong-Whan Lee, "Action-aware Masking Network with Group-based Attention for Temporal Action Localization," in *Proc. IEEE Winter Conf. Appl. Comput. Vis. (WACV)*, 2023. **(Oral)**
- [6] **Kyung-Min Jin**, Gun-Hee Lee, and Seong-Whan Lee, "OTPose: Occlusion-Aware Transformer for Pose Estimation in Sparsely-Labeled Videos," in *Proc. IEEE Int. Conf. Syst. Man Cybern. (SMC)*, 2022. **(Oral)**

GRANTS AND HONORS	[1] Awarded LG Electronics R&D Scholarships	Sep. 2022
	[2] Awarded Grand Prize Miso AI Model Development Challenge 2021, Infant Behavior Video Data hosted by Ministry of Science and ICT	Dec. 2021
	[3] Encouragement Prize smart campus dataton 2020 in Korea University	Jul. 2020
ACADEMIC SERVICE	Reviewer of CVPR (IEEE Conference on Computer Vision and Pattern Recognition)	2023 - 2024
RESEARCH EXPERIENCE	Voice caddie	Seoul, Korea
	Golf swing pose, distance assistant device <ul style="list-style-type: none"> Golf pose estimation model, action localization, and annotation tool Pytorch, C++, and OpenCV 	May. 2020 - Nov. 2020
INDUSTRIAL EXPERIENCE	LG Electronics	Seoul, Korea
	Artificial intelligence research center	
	<ul style="list-style-type: none"> Multimodal Task - Artificial intelligence researcher Cognitive Vision TP - Artificial intelligence researcher 	Jul. 2023 - present Mar. 2023 - Jul. 2023
	Deer corporation	Seoul, Korea
	Electric kick board startup	Jul. 2020 - Feb. 2021
	<ul style="list-style-type: none"> Frontend developer React, Typescript, Next.js, and React Native 	
	Klue	Seoul, Korea
TEACHING EXPERIENCE	Course evaluation service for Korea University	Jul. 2019 - present
	<ul style="list-style-type: none"> Frontend developer React, Typescript, Redux, and MobX 	
	Teaching Assistant	Korea University
	<ul style="list-style-type: none"> Teaching Assistant for COSE213-02: Data Structure 	Sep. 2022 - Dec. 2022
	Instructor	Inflearn
	<ul style="list-style-type: none"> Online 2D Pose estimation course 	Mar. 2023
CERTIFICATE	Human Resources Development Service of Korea	Seoul, Korea
	<ul style="list-style-type: none"> Engineer Information Processing 	Nov. 2021
SKILLS	Computer Programming	
	<ul style="list-style-type: none"> Python, JavaScript, and C 	
	Deep Learning Frameworks	
	<ul style="list-style-type: none"> PyTorch, Tensorflow, and Keras 	
	Languages	
	<ul style="list-style-type: none"> Korean (mother tongue) English (TOEIC Speaking - Lv. 6 / OPIc - IM1 / TOEIC - 830) 	