

## Kyung-Min Jin

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### CONTACT INFORMATION

**LG Electornics**  
Cognitive Vision TP  
19, Yangjae-daero 11-gil, Seocho-gu,  
Seoul, Republic of Korea

*GitHub:* [/KyungMinJin](#)  
*E-mail:* [km\\_jin@korea.ac.kr](mailto:km_jin@korea.ac.kr)  
*Homepage:* <https://kyungminjin.github.io>

### 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.

### 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] **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," Under Review.
- [2] 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.
- [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)*, 2023.
- [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
RESEARCH EXPERIENCE	<b>Voice caddie</b>	Seoul, Korea
	Golf swing pose, distance assistant device <ul style="list-style-type: none"> <li>• Golf pose estimation model, action localization, and annotation tool</li> <li>• Pytorch, C++, and OpenCV</li> </ul>	May. 2020 - Nov. 2020
INDUSTRIAL EXPERIENCE	<b>LG Electronics</b>	Seoul, Korea
	Artificial Intelligence, Computer vision field <ul style="list-style-type: none"> <li>• Artificial intelligence researcher (pose estimation)</li> <li>• Pytorch</li> </ul>	Mar. 2023 - present
	<b>Deer corporation</b>	Seoul, Korea
	Electric kick board startup <ul style="list-style-type: none"> <li>• Frontend developer</li> <li>• React, Typescript, Next.js, and React Native</li> </ul>	Jul. 2020 - Feb. 2021
	<b>Klue</b>	Seoul, Korea
	Course evaluation service for Korea University <ul style="list-style-type: none"> <li>• Frontend developer</li> <li>• React, Typescript, Redux, and MobX</li> </ul>	Jul. 2019 - present
TEACHING EXPERIENCE	<b>Teaching Assistant</b> <ul style="list-style-type: none"> <li>• Teaching Assistant for COSE213-02: Data Structure</li> </ul>	Korea University Sep. 2022 - Dec. 2022
	<b>Instructor</b> <ul style="list-style-type: none"> <li>• Online 2D Pose estimation course</li> </ul>	Inflearn Mar. 2023
CERTIFICATE	<b>Human Resources Development Service of Korea</b> <ul style="list-style-type: none"> <li>• Engineer Information Processing</li> </ul>	Seoul, Korea Nov. 2021
SKILLS	<b>Computer Programming</b> <ul style="list-style-type: none"> <li>• Python, JavaScript, and C</li> </ul>	
	<b>Deep Learning Frameworks</b> <ul style="list-style-type: none"> <li>• PyTorch, Tensorflow, and Keras</li> </ul>	
	<b>Languages</b> <ul style="list-style-type: none"> <li>• Korean (mother tongue)</li> <li>• English (TOEIC Speaking - Lv. 6 / OPIc - IM1 / TOEIC - 830)</li> </ul>	