

## Kyung-Min Jin

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### CONTACT INFORMATION

**LG Electornics**  
Multimodal Task  
19, Yangjae-daero 11-gil, Seocho-gu,  
Seoul, Republic of Korea

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*E-mail:* [km\\_jin@korea.ac.kr](mailto:km_jin@korea.ac.kr)  
*Page:* [github.io](#)  
*Scholar:* [Google Scholar](#)

### 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)**

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|-----------------------|---|--|
| 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 <b>CVPR</b> (IEEE Conference on Computer Vision and Pattern Recognition)  | 2024 - 2025                                  |
| RESEARCH EXPERIENCE   | <b>Voice caddie</b>   | Seoul, Korea                                 |
|                       | Golf swing pose, distance assistant device<br><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 research center<br><ul style="list-style-type: none"> <li>Multimodal Task - Artificial intelligence researcher</li> <li>Cognitive Vision TP - Artificial intelligence researcher</li> </ul> | Jul. 2023 - present<br>Mar. 2023 - Jul. 2023 |
|                       | <b>Deer corporation</b>   | Seoul, Korea                                 |
|                       | Electric kick board startup<br><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<br><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><br><ul style="list-style-type: none"> <li>Teaching Assistant for COSE213-02: Data Structure</li> </ul>  | Korea University<br>Sep. 2022 - Dec. 2022    |
|                       | <b>Instructor</b><br><ul style="list-style-type: none"> <li>Online 2D Pose estimation course</li> </ul>   | Inflearn<br>Mar. 2023                        |
| CERTIFICATE           | <b>Human Resources Development Service of Korea</b><br><ul style="list-style-type: none"> <li>Engineer Information Processing</li> </ul>  | Seoul, Korea<br>Nov. 2021                    |
| SKILLS                | <b>Computer Programming</b><br><ul style="list-style-type: none"> <li>Python, JavaScript, and C</li> </ul>  |  |
|                       | <b>Deep Learning Frameworks</b><br><ul style="list-style-type: none"> <li>PyTorch, Tensorflow, and Keras</li> </ul>   |  |
|                       | <b>Languages</b><br><ul style="list-style-type: none"> <li>Korean (mother tongue)</li> <li>English (TOEIC Speaking - Lv. 6 / OPIc - IM1 / TOEIC - 830)</li> </ul>   |  |