Minjeong Park

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Research Interests

My current research interests lie in **multimodal large language models** and **image/video generative models**, with a focus on integrating visual and linguistic understanding for complex real-world scenarios. I worked on developing models capable of generalizing to unseen categories and distribution shifts, and addressing diverse challenges across 2D and 3D representations.

Education

Yonsei University *Seoul, Korea*
M.S. *in Electrical and Electronic Engineering* *Aug 2024*

- Advised by Prof. Sangyoun Lee
- Thesis: Pedestrian Attribute Recognition via Text-guided Semantic Representation

Kyung Hee University *Seoul, Korea*
B.S. *in Computer Science and Engineering* *Aug 2022*

- Advised by Prof. Hui Yong Kim
- Thesis: Neural Image Compression using Block-based Adaptive Resizing

Publications

Open-Attribute Recognition for Person Retrieval:
Finding People Through Distinctive and Novel Attributes
Minjeong Park, Hongbeen Park, Sangwon Lee, Yoonha Jang, Jinkyu Kim
arXiv, 2025

ViTA-PAR: Visual and Textual Attribute Alignment
with Attribute Prompting for Pedestrian Attribute Recognition
Minjeong Park, Hongbeen Park, Jinkyu Kim
*IEEE International Conference on Image Processing (**ICIP**) **Oral Presentation**, 2025*

LRSLAM: Low-rank Representation of Signed Distance Fields in Dense Visual SLAM System
Hongbeen Park, **Minjeong Park**, Giljoo Nam, Jinkyu Kim
*European Conference on Computer Vision (**ECCV**), 2024*

Workshop Papers

Fast and Precise Multimodal Spatiotemporal Calibration
via Periodic-Activated 2D Gaussian Splatting
Hongbeen Park*, **Minjeong Park***, Sunpil Kim, Jinkyu Kim, Jung Hyun Lee
*IEEE International Conference on Computer Vision (**ICCV**) Workshop on **Wild 3D**, 2025*

Research Experience

Korea University *Seoul, Korea*
Research Assistant, Vision & AI Lab *Aug 2024 – Aug 2025*

- Advised by Prof. Jinkyu Kim
- Designed person retrieval networks leveraging open-vocabulary person attribute recognition.
- Developed an efficient visual SLAM model to improve convergence rates and enhance reconstruction quality.

Korea Institute of Science and Technology (KIST) *Seoul, Korea*
Student Researcher, Center for Artificial Intelligence *Sep 2022 – Jul 2024*

- Advised by Dr. Heeseung Choi
- Designed person re-identification and pedestrian attribute recognition algorithms to enhance robustness in real-world scenarios.

Yonsei University *Seoul, Korea*
Graduate Research Assistant, Image and Video Pattern Recognition Lab *Sep 2022 – Aug 2024*

- Advised by Prof. Sangyoun Lee
- Designed attribute recognition networks to improve OOD robustness.

Kyung Hee University *Seoul, Korea*
Undergraduate Research Assistant, Visual and Media Lab *Mar 2021 – Aug 2022*

- Advised by Prof. Hui Yong Kim
- Developed a neural image compression algorithm by implementing block-based adaptive resizing.

Laon People (Global ICT Internship Program) *San Jose, CA*
Research Intern, AI Traffic Solution Team *Jul 2021 – Aug 2021*

- Trained deep learning-based vehicle tracking model.
- Built upgraded tracking algorithm for occluded vehicles.

Patents

METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE AND STORAGE MEDIUM FOR STORING BITSTREAM Jun 2023
Korea, 1020230074338
PCT/KR2023/007985

Honors & Awards

Full Scholarship Sep 2022 - Aug 2024
Yonsei University
Scholarship that covers tuition

Yonsei Graduate Fellowship Sep 2022 - Aug 2023
Yonsei University
Scholarship for outstanding students

Silicon Valley Software Technology and Innovation Program - 3rd Prize Feb 2021
San Jose State University
Award for the development of a mobile application and its business strategy

SW College Project Scholarship Sep 2020, Sep 2021
Kyung Hee University
Scholarship for engagement in national software initiatives