# Minjeong Park

**O** https://github.com/MINDYEOI

# **Research Interests**

My research interests lie in the field of computer vision, machine learning, and its applications. Most recently, my research focuses on two main directions: (1) Ensuring robustness to distribution changes and unknown categories for real-world scenarios and (2) Developing an innovative vision algorithm to address diverse challenges across the representations in 2D and 3D.

## Education

Yonsei University	Seoul, Korea
<b>M.S.</b> in Electrical and Electronic Engineering	$Aug \ 2024$
• Advised by Prof. Sangyoun Lee	
$\circ$ Thesis: Pedestrian Attribute Recognition via Text-guided Semantic Repr	esentation
<b>Kyung Hee University</b> <b>B.S.</b> in Computer Science and Engineering	Seoul, Korea Aug 2022
Research Experience	
Korea University	Seoul, Korea
Research Assistant, Vision & AI Lab	$Aug \ 2024 - Present$
• Advised by Prof. Jinkyu Kim	
$\circ$ Designed person retrieval networks leveraging open-vocabulary person at	tribute recognition.
$\circ~$ Developed an efficient visual SLAM model to improve convergence rates as	nd 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 alg real-world scenarios.	orithms to enhance robustness in
Yonsei University	Seoul, Korea
Graduate Research Assistant, Image and Video Pattern Recognition Lab	Sep  2022 – $Aug  2024$
$\circ$ Designed attribute recognition networks to improve OOD robustness.	
Kyung Hee University	Seoul, Korea
Undergraduate Research Assistant, Visual and Media Lab	Mar 2021 – Aug 2022
$\circ$ Developed a neural image compression algorithm by implementing block-	based adaptive resizing.
Laon People (Global ICT Internship Program)	San Jose, CA
Laon reopie (Giobai ier internsnip riogram)	Jul 2021 – Aug 2021
Research Intern, AI Traffic Solution Team	• ••• •••• ••• ••• ••• ••• ••• ••• •••
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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 Person Retrieval with Open Vocabulary Attribute Recognition Through Region Understanding Minjeong Park, Hongbeen Park, Jinkyu Kim\* arXiv Preprint

ViTA-PAR: One-to-One Visual and Textual Alignment for Pedestrian Attribute Recognition Minjeong Park, Hongbeen Park, Jinkyu Kim\* *arXiv Preprint* 

Multi-Attention based Pedestrian Attribute Recognition with Learnable Multimodal Prompts Minjeong Park, Sangyoun Lee, Ik-Jae Kim, Heeseung Choi\* (Domestic) Proceedings of IEIE, 2024

Neural Image Compression using Block based Adaptive Resizing Minjeong Park, Yeongwoong Kim, Donghyun Kim, Sung Chang Lim, Hui Yong Kim\* (Domestic) Proceedings of the Korean Society of Broadcast Engineers Conference, 2022

### Patents

METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE AND STORAGE MEDIUM FOR STORING BITSTREAM Korea, 1020230074338 PCT/KR2023/007985	Jun 2023
Honors & Awards	
<b>Fully Funded Scholarship</b> Yonsei University Scholarship	Sep 2022 - Aug 2024

Yonsei Graduate Fellowship Yonsei University Scholarship	Sep 2022 - Aug 2023
<b>3rd place in Silicon Valley Software Technology and Innovation Program</b> San Jose State University <i>Award</i>	Feb 2021
<b>SW College Project Scholarship</b> Kyung Hee University <i>Scholarship</i>	Sep 2020, Sep 2021
<b>External Affair Supporters Scholarship</b> Kyung Hee University Scholarship	Mar 2021 - Feb 2022

Activities

# Promotional AmbassadorMar 2021 – Feb 2022Office of External Affairs, Kyung Hee UniversityJun 2020 - Dec 2021Board MemberJun 2020 - Dec 2021Computer Science Club 'D.com', Kyung Hee UniversityMar 2020 - Dec 2021Board MemberMar 2020 - Dec 2021Computer Science Student Council, Kyung Hee UniversityMar 2020 - Dec 2021

### Skills

**Programming Language**: Python, C/C++, C, Swift, JavaScript **Tools**: Pytorch, TensorFlow, OpenCV, Matplotlib, React, mongoDB