

Minjeong Park

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Research Interests

My research interests lie in the field of computer vision, machine learning, and its applications. Most recently, my research has focused on 3D scene understanding and vision-language models for open-world settings.

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 Seoul, Korea
B.S. in Computer Science and Engineering Aug 2022

Research Experience

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

- 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

- Designed attribute recognition networks to improve OOD robustness.

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

- 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.

Publications

LRLSLAM: 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*
Preprint

ViTA-PAR: One-to-One Visual and Textual Alignment for Pedestrian Attribute Recognition

Minjeong Park, Hongbeen Park, Jinkyu Kim*

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

Jun 2023

Korea, 1020230074338

PCT/KR2023/007985

Honors & Awards

Full scholarship

Sep 2022 - Jun 2024

Yonsei University

Scholarship

Yonsei Graduate Fellowship

Sep 2022 - Aug 2023

Yonsei University

Scholarship

3rd place in Silicon Valley Software Technology and Innovation Program

Feb 2021

San Jose State University

Award

SW College Project Scholarship

Sep 2020, Sep 2021

Kyung Hee University

Scholarship

External Affair Supporters Scholarship, Kyung Hee University

Mar 2021 - Feb 2022

Scholarship

Skills

Programming Language: Python, C/C++, C, Swift, JavaScript

Tools: Pytorch, TensorFlow, OpenCV, Matplotlib, React, mongoDB