

30, Pildong-ro 1-gil
Jung-gu
Seoul, Republic of Korea

johs@dgu.ac.kr
[Github](#)
[Google Scholar](#)

Jo Hyenogseob

BIO

I am currently a master's student in the Department of Computer Science and Engineering at Dongguk University. I am a member of the Smart Vision & Media (SVM) Lab, focusing on computer vision and deep learning. My research focuses on defect classification and anomaly detection for industrial applications, aiming to solve real-world problems in automated manufacturing environments.

FIELD OF INTEREST

Computer vision, Representation learning, Defect classification, Anomaly detection

EDUCATION

Dongguk University (DGU) M.S. in Computer Science and Engineering (CSE)	<i>Expected Feb. 2026</i>
Dongguk University (DGU) B.S.E. in Mechanical Engineering (ME)	<i>Feb. 2024</i>
Gyeongkuk National University (GKNU) B.A. in Ethics Eduaction, Double Major English Education	<i>Feb. 2020</i>

RESEARCH EXPERIENCE

Multi-Illumination Display Inspection <i>Graduate Student Research Assistant</i>	<i>Mar. 2024 - Feb. 2025</i> <i>LGDisplay</i>
<ul style="list-style-type: none">Developed a defect classification algorithm for display panels using multi-illumination image inputs.Conducted in collaboration with LG Display as part of an industry-academia joint research project.Achieved 98.5% classification accuracy on defect test images and deployed the algorithm within LG Display's production inspection system.	

POSITIONS

Graduate Student Research Assistant (RA) Smart Vision & Media (SVM) Lab Computer Science and Engineering (CSE), Dongguk University (DGU)	<i>Mar. 2024 - Present</i>
Contract Teacher Social Studies, Ethics Youngju Girls' High School	<i>Mar. 2020 - Dec. 2020</i>

PROJECT

LG Aimers

Winter 2023

AI Competition Project: B2B Sales Opportunity Prediction

LG AI Research

- Developed a binary classification model to predict B2B sales opportunities from Marketing Qualified Lead (MQL) data.
- Explored and compared over 10 machine learning models including XGBoost, LightGBM, and ensemble methods using customer data.

Autonomous Robot Navigation

Spring 2023

Course Project (MEC4092-01)

Dongguk University

- Implemented autonomous navigation behaviors using ROS2 and the TurtleBot3 platform.
- Developed and tested real-time control and sensor fusion nodes using Python.
- Evaluated navigation performance in a physical testbed environment with obstacle avoidance tasks.

PUBLICATIONS

International Conferences

1. Hyeongseob Jo, Seunggi Park, and Sung In Cho. A survey of unsupervised learning-based out-of-distribution detection. In *Proceedings of the IEEE International Conference on Consumer Electronics-Asia (ICCE-Asia)*, pages 1–4. IEEE, 2024
2. Yoonseo Park, Hyeongseob Jo, and Sung In Cho. A survey of training-free diffusion-based image generation with free-form mask. In *Proceedings of the 2025 International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC)*, 2025
3. Anonymous. Title withheld for double-blind review, 2025. Submitted to *British Machine Vision Conference (BMVC)* (h5-index: 65)

International Journals

1. Anonymous. Title withheld for double-blind review, 2025. Submitted to *IEEE Transactions on Knowledge and Data Engineering (TKDE)* (IF: 8.9, Rank: 2%)
2. Anonymous. Title withheld for double-blind review, 2025. Submitted to *Neural Computing and Applications (NCAA)* (IF: 4.5, Rank: 26%)

LANGUAGES & SKILLS

- Korean (native), English (conversational)
- Pytorch, MATLAB, C
- L^AT_EX, Microsoft Office, Ubuntu, Windows

TEACHING ASSISTANT

AI course (machine learning, deep learning)

Jun. 10–13 and 23–25 2025

LG Display

Introduction to Industry-Academia Project (CAI7177-01)

Spring 2025

Computer Science and Engineering (CSE), Dongguk University (DGU)

Signal Processing, Image Processing
LX Semicon

Aug. 19–23 2024

Creative Engineering Design (CSC2004-03)
Computer Science and Engineering (CSE), Dongguk University (DGU)

Spring 2024

Revised June 16, 2025