



# DONGWOOK KIM

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🔗 Tech blog    🌐 donguk071    in DONGWOOK KIM

## Education

### UNIST.

Ulsan, S.Korea

#### Graduate School of Artificial Intelligence, AI core

Jan 2024 – Current

- Total GPA 4.2/4.5
- Visual Information Processing Lab (Prof.Jae-Young Sim)

### Qualcomm Institute, UC San Diego.

SanDiego, CA, US

#### Qualcomm Institute AI Development Projects

Jul 2022 – Aug 2022

- International Researcher

### Kwangwoon Univ.

Seoul, S.Korea

#### B.S in Information Convergence, Major in Data Science

Jan 2018 – 2024

- Total GPA 3.98/4.5, Major GPA 4.16/4.5 (Credits taken: 116/133)
- Deep Imaging and Graphics Lab (Prof.Dongjoon Kim)

## Publications

### International

#### [Under Review] ICLR 2026

May 2026

#### Parameterization-Based Dataset Distillation of 3D Point Clouds through Learnable Shape Morphing (1st author)

Dong-Wook Kim, Jae-Young Yim and Jae-Young Sim

#### NeurIPS 2025

Nov 2025

#### Dataset Distillation of 3D Point Clouds via Distribution Matching (1st author, [link](#))

Jae-Young Yim, Dong-Wook Kim and Jae-Young Sim

#### ICIP-W 2025

Sep 2025

#### Class-Aware Coreset Selection for 3D Point Clouds Classification (2nd author)

Jae-Young Yim, Dong-Wook Kim and Jae-Young Sim

### Domestic

#### IPIU 2024

Jun 2024

#### Controllable Classification via Negative-Context-Aware Learning (2nd author, [link](#))

Jae-Young Yim, Dong-Wook Kim and Jae-Young Sim

#### IEIE 2024

Jun 2024

#### Enhancing Quality of Gaussian Splatting in Few Shot Condition by Multi-Scale Augmentation (1st author, [link](#))

Dong-Wook Kim, Jae-Young Yim and Jae-Young Sim

#### HCI Academy of Korea 2023

Feb 2023

#### Synthesized training data for a ship 3D surround view learning model based on user evaluations (1st author, [link](#))

Dongwook Kim, Jonghun Kim, Taemin Jeong and Dongjoon Kim

## Experience

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**Qualcomm Institute, UC San Diego.**

*San Diego, CA, US*

### **Qualcomm Institute AI Development Projects**

*Jul 2022 – Aug 2022*

- Developed a classification model using the KNIME framework
- Prevent abusing through analyzing and classifying user characteristics on Intragram

**Kwangwoon Univ. Visual Informatics lab, lab.,** Undergraduate Research Assistant

*Seoul, S. Korea  
Jul.2021– Feb.2024*

## Projects & Awards

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### **2nd prize, 2025 Samsung AI Challenge**

*Feb 2024*

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### **1st prize, SKT FLY AI**

*Feb 2024*

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### **1st prize (Minister's Award), AI contest**

*Oct 2022*

- Competed in an OCR task for signage image recognition at the AI Competition for Software-Centered Universities.
- Improved performance through data augmentation and ensemble models.

### **3rd prize, Student Creative Design Course**

*Jun 2022*

- Developed "Coverist," an AI-based book cover generation service.
- Managed the end-to-end project, from AI development to web/app deployment.

### **Distortion-free SVM generation**

*Jun 2022*

- Built a real-time digital twin of a marine environment in Unreal Engine 5, generating synthetic data from virtual LiDAR and RGB sensors.
- Developed and trained deep learning models for sensor data enhancement, including LiDAR super-resolution and image segmentation.
- Integrated a 3D geometry reconstruction pipeline using calibrated sensor data to successfully complete the development of a distortion-free Surround View Monitor (SVM).

## Patent

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## Extra Activity

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## Technologies

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**Programming Languages:** Python, C++, JavaScript, Unreal Blueprints

**Deep Learning & Vision:** TensorFlow, PyTorch, OpenCV

**Simulation & Graphics:** Unreal Engine, Three.js, Panda3D