



## Junseong Shin

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## EDUCATION

### •Hanyang University, Graduate School

*Ph.D. Student in Artificial Intelligence*

2022 – Present

Seoul, South Korea

### •Hanyang University

*B.S. in Mathematics*

2016 – 2022

Seoul, South Korea

## EXPERIENCE

### •Korea Institute of Science and Technology (KIST)

*Research Intern, Center for Artificial Intelligence*

Jun. 2021 – Dec. 2021

Seoul, South Korea

- Assisted research on deep learning models for computer vision tasks, focusing on face recognition, action recognition, object detection.

### •AI Profile Generation with Hilling Paper

*Personalized Generative Model Developer*

July. 2023 – Dec. 2023

Seoul, South Korea

- Developed personalized generative models to create user-specific professional profile photos.

## PUBLICATIONS

### ODDR: One-Step Deshadow Diffusion via Reward Guidance.

Under Review

Junseong Shin, Kijun Kim, Min Seong Kim, Dongjin Kim, Tae Hyun Kim

### Revisit Haze Physical Model as ODE and Non-Homogeneous Haze Generation for Real-World Dehazing

ICCV 2025

Junseong Shin\*, Seungwoo Chung\*, Yunjeong Yang, Tae Hyun Kim

### PAPP: Plug-And-Play Prompts for Shadow Removal

Under Review

Junseong Shin\*, Seungwoo Chung\*, Tae Hyun Kim

### Deep Variational Bayesian Modeling of Haze Degradation Process

CIKM 2023

Eun Woo Im\*, Junseong Shin\*, Sungyong Baik, Tae Hyun Kim

## TECHNICAL SKILLS AND INTERESTS

**Programming:** Python, C/C++, MATLAB

**Frameworks:** PyTorch, TensorFlow, OpenCV, Diffusers, HuggingFace

**Developer Tools:** Git, Linux (Ubuntu), Docker, CUDA, Jupyter, VS Code

**Languages:** Korean (Native), English (Professional Proficiency)

**Research Interests:** Computer Vision, Image Restoration, Shadow Removal, Dehazing, Diffusion Models

## PATENT

### •Variational Bayesian Framework for Learning Transmission-Aware Dehazing Networks

KR Patent App.

## AWARDS

### •Outstanding Paper Award in IPIU (Image Processing and Image Understanding)

Feb. 2025