

# Seungwoo Chung

✉ jswoo9898@gmail.com    ☎ (+82) 10 2637 9729

## Education

---

- B.S    Hanyang University** Mar. 2016 – Feb. 2023
- Mathematics & Big data science
  - GPA: 3.97/4.5
- M.S    Hanyang University** Mar. 2023 – Feb. 2025
- Artificial Intelligence
  - GPA: 4.22/4.5

## Research Interests

---

Computer vision, Generative models, Diffusion models, Image restoration, Large Vision Language model.

## Experience

---

- Artificial Intelligence and Robotics Institute**, Research Intern KIST, Korea  
Jul. 2025 -
- Research on Deep learning.
- Vision Intelligence Lab**, Graduate Research Assistant Hanyang Univ, Korea  
Mar. 2023 – Feb. 2025
- Research on Low-level vision.
  - Research on Shadow Removal.
  - Research on Haze Removal.
  - Research on Protein structure prediction.
- Vision Intelligence Lab**, Research Intern Yonsei Univ, Korea  
Aug. 2022 – Dec. 2022
- Research on Diffusion models.
- Bio Imaging. Signal Processing & Learning Lab**, Research Intern KAIST Univ, Korea  
Jul. 2022 – Aug. 2022
- Research on Generative models.
- Artificial Intelligence and Robotics Institute**, Research Intern KIST, Korea  
Dec. 2021 – Jun. 2022
- Research on Deep learning with Robot vision.

## Publications

---

### International Journal and Conference Papers

---

- Haze Flow: Revisit Haze Physical Model as ODE and Realistic Non-Homogeneous Haze Generation for Real-World Dehazing** ICCV 2025
- Junsung Shin\*, **Seungwoo Chung\***, Yunjeong Yang, Taehyun Kim
- PAPP: Plug-And-Play Prompts for Shadow Removal** Under review
- Junsung Shin\*, **Seungwoo Chung\***, Taehyun Kim

## PromptBind: Plug-and-play Prompt Scheme for Enhancing Protein-Ligand Binding

Under review

Jaekyun Ko, **Seungwoo Chung**, Yunjung Yang, Taebin Bang, Taehyun Kim

## Domestic Conference Papers

### Semantic-Aware Shadow Removing Transformer With Prompt-Based Method

KIBME summer  
conference 2024

**Seungwoo Chung**<sup>\*</sup>, Junsung Shin<sup>\*</sup>, Taehyun Kim

### Semantic-Aided Shadow Removal: A Plug-and-Play Approach

IPIU 2025

Junsung Shin<sup>\*</sup>, **Seungwoo Chung**<sup>\*</sup>, Eeunhye Lee, Sunhye Shin, Taehyun Kim

(Outstanding paper)

### Flowhaze: Removing Haze with Flow-based Model and Non-Homogeneous Haze Generation for Real-World Dehazing

IPIU 2025

**Seungwoo Chung**, Yunjeong Yang, Dain Lee, Taebin Bang, Taehyun Kim

## Honors & Awards

### Scholarships

Scholarship for academic excellence, Hanyang University

Sep. 2020

- Awarded to 2nd outstanding student out of a total of 57.

Dept. of Artificial Intelligence Scholarships, Hanyang University

Mar.2024, Sep. 2024

### Awards

Outstanding Paper Award, IPIU 2025

Feb. 2025

## Skills

**Programming Language:** Python, C, Matlab, R, ROS, SAS

**Language:** Korean, English