Seungwoo Chung

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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
- Research on Deep learning.   Jul. 2025 -

Vision Intelligence Lab, Graduate Research Assistant   Hanyang Univ, Korea
- Research on Low-level vision.   Mar. 2023 – Feb. 2025
- Research on Shadow Removal.
- Research on Haze Removal.
- Research on Protein structure prediction.

Vision Intelligence Lab, Research Intern   Yonsei Univ, Korea
- Research on Diffusion models.   Aug. 2022 – Dec. 2022

Bio Imaging. Signal Processing & Learning Lab, Research Intern   KAIST Univ, Korea
- Research on Generative models.   Jul. 2022 – Aug. 2022

Artificial Intelligence and Robotics Institute, Research Intern   KIST, Korea
- Research on Deep learning with Robot vision.   Dec. 2021 – Jun. 2022

Publications

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

Semantic-Aware Shadow Removing Transformer With Prompt-Based Method   KIBME summer conference 2024

*Seungwoo Chung**, Junsung Shin*, Taehyun Kim

Semantic-Aided Shadow Removal: A Plug-and-Play Approach   IPIU 2025 (Outstanding paper)

Junsung Shin*, *Seungwoo Chung**, Eeunhye Lee, Sunhye Shin, Taehyun Kim

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

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

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

PAPP: Plug-And-Play Prompts for Shadow Removal   Under review

Junsung Shin*, *Seungwoo Chung**, 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