Taehyeon Kim

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Education

Yonsei University, Seoul, South Korea Mar. 2024 – Present
B.S. in Artificial Intelligence
GPA: 4.12/4.30 (Cumulative), 4.24/4.30 (Major)

Research Interests

My research interest lies in **Generative AI**, with an emphasis on its theoretical foundations and on the geometry of generative trajectories — the paths along which generative models transport probability mass. Beyond theory, I am interested in applying generative models to **Computational Photography**, particularly toward user-preference-driven image editing and the design of next-generation camera pipelines.

Scholarships & Awards

Honors Feb. 2026
Yonsei University
- Ranked in the top **3%** of the students with GPA over 3.75/4.30.

Highest Honors Aug. 2025
Yonsei University
- Ranked in the top **1%** of the students with GPA over 4.00/4.30.

National Science and Engineering Undergraduate Scholarship Mar. 2024 – Present
Korea Student Aid Foundation
- 4-year scholarship awarded to top students with excellence in mathematics and science.

Research Experience

CIPLAB, Yonsei University Aug. 2025 – Present
Undergraduate Intern (Advisor: Prof. Seon Joo Kim)
- Studied computational photography with a focus on the camera ISP pipeline, and investigated ISP-to-ISP transfer using generative models.
- Contributed to the development of a dataset for personal color preference research.

Publications

FlowISP: Latent Space ISP Transfer via Conditional Flow Matching, *In CVPRW, Low-Level Vision Frontiers, 2026*
Taehyeon Kim, Jinwoo Kim, Seon Joo Kim

Competitions

The 2nd AI Drug Discovery Competition Aug. 2024
Convergence AI Institute for Drug Discovery
- Ranked **17th** among 900 teams – Top **2%**
- Developed and trained transformer-based models to predict IC50 values from tabular data with k-fold cross-validation and feature normalization.

The AI Competition for Extracting 4D Block Structures Jan. 2023
4D Land, AIFrenz
- Ranked **37th** among 461 teams – Top **9%**
- Trained CNN-based models to classify 4D block imaging data with augmentation and class-imbalance handling.

Skills

Programming Languages: C, C++, Python (PyTorch)

Tools: Docker, Conda, Jupyter

Languages: English (Proficient), Korean (Native)

Certificates

Information Processing Craftsman Sep. 2025

Human Resources Development Service of Korea

TOEIC: 950/990 Jan. 2025

Educational Testing Service