

Sehwan Park

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Research Interests

I am an M.S. student at Korea University working on generative AI for vision, from diffusion distillation to controllable and compositional generation. My long-term goal is to make generative models that learn from limited data by capturing the physical and relational structure of the visual world, so that they can serve as world models for machines that perceive, imagine, and act.

Keywords: efficient generative models; controllable generative models; video generation; world models.

Education

M.S. in Computer Science and Engineering

Korea University, Seoul, Korea

Advisor: Prof. Paul Hongsuck Seo (MIIL)

Mar. 2025 – Aug. 2027 (expected)

GPA: 4.25/4.5

B.S. in Intelligence Mechatronics Engineering

Sejong University, Seoul, Korea

Advisor: Prof. Hyung Seok Kim (MINES Lab)

Mar. 2019 – Feb. 2025

Graduated summa cum laude, GPA 4.31/4.5

Publications

[C] conference papers, [P] preprints / under review.

- [C3] **Compositional SVG Generation via VLM-Driven Hierarchical Semantic Parsing** [Paper](#) | [Project](#) | [Code](#)
Sehwan Park^{*}, Taehoon Kim^{*}, Geonhee Han, Dohyun Kim, Seung Wook Kim, Paul Hongsuck Seo (^{*}equal contribution)
EMNLP 2026, Main Conference
- [C2] **Cross-Modal Watermarking for Authentic Audio Recovery and Tamper Localization in Synthesized Audiovisual Forgeries** [Paper](#) | [ISCA](#)
Minyoung Kim, *Sehwan Park*, Sungmin Cha, Paul Hongsuck Seo
Interspeech 2025
- [C1] **Random Conditioning with Distillation for Data-Efficient Diffusion Model Compression** [Paper](#) | [Project](#) | [Code](#)
Dohyun Kim^{*}, *Sehwan Park*^{*}, Geonhee Han, Seung Wook Kim, Paul Hongsuck Seo (^{*}equal contribution)
CVPR 2025
- [P1] **Self-Guided Debiasing: Mitigating Multi-Faceted Bias via Internal Generative Priors**
Seonghyeon Noh^{*}, *Sehwan Park*^{*}, Paul Hongsuck Seo (^{*}equal contribution)
Under review

Honors & Awards

Nov. 2025	Qualcomm Innovation Fellowship Korea 2025, Finalist , for <i>Random Conditioning</i> (CVPR 2025)
Spring 2024	2nd-rank Honor Scholarship (GPA 4.5/4.5), Sejong University
Spring 2023	2nd-rank Honor Scholarship (GPA 4.5/4.5), Sejong University
Sep. 2020	1st Place (Grand Prize), Regional Connection SW Presentation, Seoul Campus Town
Fall 2019	1st-rank Honor Scholarship (GPA 4.5/4.5), Sejong University

Teaching

Sep. 2025	Online Lecturer , <i>Practice: Diffusion Models</i> , recorded for Samsung Electronics
Aug. 2025	Teaching Assistant , Samsung Electronics AI Expert Program <i>Action Recognition and Video Understanding, Visual Question Answering</i>