

SEUNGWOO YOON

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Homepage: <https://seungwoo-yoon.github.io>

🔗 Google Scholar ◊ 🌐 GitHub ◊ **in** LinkedIn

EDUCATION

Seoul National University (SNU)

Double Major in Computer Science and Mathematics

Total GPA: 3.99/4.0, Major GPA: 4.0/4.0

Mar 2023 - Present

B.S.

RESEARCH INTERESTS

3D Computer Vision, Generative AI, Multimodal Learning

PUBLICATIONS

- [1] **Seungwoo Yoon**, Jinmo Kim, and Jaesik Park. Extend3D: Town-Scale 3D Generation. *CVPR*, 2026. project paper.
- [2] Hyunsik Chae, **Seungwoo Yoon**, Jaden Park, Chloe Yewon Chun, Yongin Cho, Mu Cai, Yong Jae Lee, and Ernest K. Ryu. Decomposing Complex Visual Comprehension into Atomic Visual Skills for Vision Language Models. *The Journal of Data-centric Machine Learning Research*, 2026. Extended version of *NeurIPS Workshop 2024* paper. paper.
- [3] Hyunsik Chae, **Seungwoo Yoon**, Chloe Yewon Chun, Gyehun Go, Yongin Cho, Gyeongmin Lee, and Ernest K. Ryu. Decomposing Complex Visual Comprehension into Atomic Visual Skills for Vision Language Models. *NeurIPS Workshop on MATH-AI*, 2024. paper.

RESEARCH EXPERIENCE

Visual & Geometric Intelligence Lab [1]

Supervisor: *Jaesik Park*

Mar 2025 - Present

SNU

- Developed a scalable and general training-free pipeline that can generate large-scale 3D scenes.
- Working on physically plausible multi-object 3D generation.

Ryu Optimization Group [2, 3]

Supervisor: *Ernest K. Ryu*

Jun 2024 - Feb 2025

UCLA

- Designed and built mathematical benchmark for Vision Language Models and evaluated them.
- Fine-tuned CLIP and VLM on procedurally generated math dataset with ControlNet augmentation.

TEACHING EXPERIENCE

Probability and Computing [SNU F31.202]

Teaching Assistant

2025 Fall

AWARDS AND HONORS

Creative Design Fair SNU College of Engineering Silver Prize	2025
Presidential Science Scholarship Korea Student Aid Foundation Full tuition and stipend for 4 years	2023 - 2026
Korea Science & Engineering Fair, Gold Prize Korea Science Service 1st place in computer science Finalist for International Science & Engineering Fair	2022

SKILLS

Programming Languages	Python, C/C++, JavaScript
Languages	Korean (Native), English (Fluent)