

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

PUBLICATIONS

- [1] **Seungwoo Yoon**, Jinmo Kim, and Jaesik Park. Extend3D: Town-scale 3D Generation. *CVPR*, 2026.
- [2] 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.

RELEVANT COURSEWORK

Graduate Courses

- Advanced Artificial Intelligence
- 3D Computer Vision
- Reinforcement Learning, Search, and Test-Time Scaling of Large Language Models
- Multimodal Generative AI Theories and Application

Undergraduate Courses

- CS: Algorithms, Data Structures, Theories and Lab of VR/AR, Automata Theory
- Math: Calculus I/II, Linear Algebra, Discrete Mathematics, Statistics, Measure Theory, Stochastic Differential Equation, Mathematical Foundations of Deep Neural Networks

I received A+ on these subjects.

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]

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.

AWARDS AND HONERS

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|---|-------------|
| 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 Finalists for International Science & Engineering Fair | 2022 |

TEACHING EXPERIENCE

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| Probability and Computing [SNU F31.202] Teaching Assistant | 2025 Fall |
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SKILLS

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