

JUNSEO KOO

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[Github](#) | [Linkedin](#) | [Google Scholar](#) | [X](#)

RESEARCH INTERESTS

3D Computer Vision, Neural Rendering : Gaussian Splatting, NeRF
Generative Models : Diffusion Models

EDUCATION

Seoul National University Sep. 2021 – Present
Integrated M.S./Ph.D. in Computer Science and Engineering GPA: **4.23 / 4.3**

Seoul National University Mar. 2018 – Aug. 2021
Bachelor of Science in Computer Science and Engineering GPA: **3.85 / 4.3** | GPA in Major: **3.94 / 4.3**

- Early Graduation, Cum Laude
- Thesis: “LConv: Linearly-Weighted Convolution” advised by Prof. Gunhee Kim

Seoul Science High School Mar. 2015 – Feb. 2018
High school for gifted students in mathematics and science

- Thesis: “TSP-like Algorithm Based on Genetic Algorithm” advised by Jongcheol Sung

PUBLICATIONS

Gaussian Blending: Rethinking Alpha Blending in 3D Gaussian Splatting
Junseo Koo, Jinseo Jeong, Gunhee Kim AAAI 2026

- [Paper](#) | [Code](#) | [Homepage](#)
- Acceptance rate = 4167/23680 (17.6%)

ESR-NeRF: Emissive Source Reconstruction Using LDR Multi-view Images
Jinseo Jeong, Junseo Koo, Qimeng Zhang, Gunhee Kim CVPR 2024

- [Paper](#) | [Code](#)
- Acceptance rate = 719/11532 (23.6%)

EP2P-Loc: End-to-End 3D Point to 2D Pixel Localization for Large-Scale Visual Localization
Minjung Kim, Junseo Koo, Gunhee Kim ICCV 2023

- [Paper](#) | [Code](#)
- Acceptance rate = 2160/8068 (26.8%)

HONORS AND AWARDS (SELECTED)

Outstanding Major Lecture Assistant Award (Seoul National University) Jan. 2024

130th Place Google Code Jam Round 3 (Semifinal Round) Jun. 2021

19th Place Google Code Jam Round 1B Apr. 2021

Silver Prize (Minister's Prize) ACM-ICPC Asia Seoul Regional Contest Nov. 2020

81st Place Facebook Hacker Cup Round 3 (Semifinal Round) Sep. 2020

7th Place Google Kick Start Round E Aug. 2020

3rd Prize Samsung Collegiate Programming Cup 2019 Jul. 2019

Silver Prize (Minister's Prize) ACM-ICPC Asia Seoul Regional Contest Nov. 2018

1st Place Midas Challenge May. 2018

Gold Prize (Minister's Prize) Korea Olympiad in Informatics (KOI) Nov. 2017

3rd Prize Innopolis University Open Olympiad in Informatics 2017 (World Finals) Feb. 2017

Silver Medal Asia-Pacific Informatics Olympiad 2016 (APIO) May. 2016

ADDITIONAL INFORMATION

Samsung Electronics Software Membership 2019 – 2025

Presidential Science Scholarship Mar. 2018 – Aug. 2021

REVIEWER EXPERIENCE

AAAI (2026), CVPR (2026)

TEACHING ASSISTANT EXPERIENCE

Probabilistic Graphical Models

Mar. 2024 – Jun. 2024

Instructor: Prof. Gunhee Kim

- M1522.001300, M3309.002400 (Seoul National University)

LG Electronics 5th Advanced Big Data Expert Course

Jan. 2024 – Feb. 2024

Instructor: Prof. Gunhee Kim

Computer Vision

Sep. 2023 – Dec. 2023

Instructor: Prof. Gunhee Kim

- M1522.001000 (Seoul National University)

Samsung Electronics AI Expert Course

Jul. 2023

Instructor: Prof. Gunhee Kim

SNU-KDB Non-degree Courses in AI Specialized Institutions (Training Courses)

Apr. 2023

Instructor: Prof. Gunhee Kim

Probabilistic Graphical Models

Mar. 2023 – Jun. 2023

Instructor: Prof. Gunhee Kim

- M1522.001300, M3309.002400 (Seoul National University)
- Outstanding Major Lecture Assistant Award

LG Electronics 4th Advanced Big Data Expert Course

Feb. 2023

Instructor: Prof. Gunhee Kim

Samsung Electronics AI Expert Course

Aug. 2022 – Sep. 2022

Instructor: Prof. Gunhee Kim

SNU-KDB Non-degree Courses in AI Specialized Institutions (Training Courses)

Apr. 2022 – May. 2022

Instructor: Prof. Gunhee Kim

Introduction to IoT, Artificial Intelligence, Big Data and Practice

Mar. 2022 – Jun. 2022

Instructor: Prof. Byung-Gon Chun

- M2177.004900 (Seoul National University)

LG Electronics Deep Learning Course

Jan. 2022 – Feb. 2022

Instructor: Prof. Gunhee Kim

Computer Vision

Sep. 2021 – Dec. 2021

Instructor: Prof. Gunhee Kim

- M1522.001000 (Seoul National University)

Samsung Electronics AI Expert Course

Aug. 2021 – Sep. 2021

Instructor: Prof. Gunhee Kim

SKILLS

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

Spoken Languages: Korean (native), English