

Seonghyun Jin

Integrated M.S./Ph.D. Student, KAIST Graduate School of AI

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Research Interests

Reconstructing and generating the real 3D world; streaming 3D reconstruction; geometric perception; Geometric Positional encoding; camera-controlled video generation.

Education

Korea Advanced Institute of Science and Technology (KAIST)

Mar. 2025 – Present
Daejeon, Republic of Korea

Integrated M.S./Ph.D. in Artificial Intelligence

- Advised by [Prof. Jong Chul Ye](#) at [BISPL](#).

Seoul National University (SNU)

Mar. 2020 – Feb. 2025
Seoul, Republic of Korea

B.S. in Computer Science; B.A. in Economics, College of Liberal Studies

- GPA: 3.68/4.3, *Cum Laude*.

Publications

P: preprint, C: conference

[P1] CRePE: Curved Ray Expectation Positional Encoding for Unified-Camera-Controlled Video Generation

Seonghyun Jin, Youngmin Kim, Sunwoo Park, Jong Chul Ye

Under review. [arXiv:2605.12938](#), 2026.

[arXiv](#) [PDF](#)

[C2] FILT3R: Latent State Adaptive Kalman Filter for Streaming 3D Reconstruction

Seonghyun Jin, Jong Chul Ye

ECCV 2026 (provisional acceptance). [arXiv:2603.18493](#).

[arXiv](#) [PDF](#) [Code](#) [Project](#) 1 citation

[C1] AI-Based Mental Health Assessment for Adolescents Using Their Daily Digital Activities

Do Hyung Kim, Joonsung Lee, Taehwi Lee, Soeun Baek, Seonghyun Jin, HaEun Yoo, Youngeun Cho, Seonghyeon Park, Kwangsu Cho, Chang-Gun Lee

IEEE DSAA, 2024.

[PDF](#) 6 citations

Academic Experience

RUBIS Lab, Seoul National University

Sep. 2022 – Jun. 2024
Seoul, Republic of Korea

Undergraduate Research Intern

- Contributed to adolescent mental health digital phenotyping research through feature engineering and data collection support; co-authored an IEEE DSAA 2024 publication.

Languages

Korean (native); English (fluent, TEPS 538, TOEIC 980).

Technical Skills

Programming Languages Python, C

Deep Learning Frameworks PyTorch

Computer Vision Multi-view geometry, 3D reconstruction, camera pose and depth estimation

Training Experience Deep learning training, ablation studies, experiment management, evaluation pipelines

Reference

Professor Jong Chul Ye

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