Changmin Lee

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Education

Korea Advanced Institute of Science and Technology (KAIST) Feb 2026–present
Ph.D. in Computer Science

Korea Advanced Institute of Science and Technology (KAIST) Feb 2024–Feb 2026
M.S. in Artificial Intelligence (Kim Jaechul Graduate School of AI)

Korea Advanced Institute of Science and Technology (KAIST) Feb 2019–Feb 2024
B.S. in Computer Science and Mathematical Sciences (double major)

Korea Science Academy Feb 2016–Feb 2019
Specialized high school for students talented in math and science

Research Interests

My research lies at the intersection of 3D computer vision, computer graphics, and physics-based simulation. I am particularly interested in physics-aware scene understanding and reconstruction: recovering 3D humans, objects, and their interactions from visual observations in a way that is consistent with the underlying physical dynamics.

Experience

NCSOFT Mar 2023–Aug 2023
Research Intern, Neural Rendering Team, Vision AI Research

- Accelerated Human Avatar Reconstruction
- Text-Driven Human Avatar Stylization

Publications

Manuscripts Under Review

1. **EfM: Simulation-Free Elastic Parameter Estimation from Observed Motion**
   Changmin Lee, Taein Kwon, Tae-Kyun Kim
   Under review

Conference Publications

1. **PhysHanDI: Physics-Based Reconstruction of Hand-Deformable Object Interactions** [paper]
   Jihyun Lee*, Changmin Lee*, Donghwan Kim, Tae-Kyun Kim (* equal contributions)
   International Conference on Machine Learning (**ICML**), 2026

2. **MPMAvatar: Learning 3D Gaussian Avatars with Accurate and Robust Physics-Based Dynamics** [paper]
   Changmin Lee, Jihyun Lee, Tae-Kyun Kim
   Conference on Neural Information Processing Systems (**NeurIPS**), 2025

Honors

Scholarships and fellowships

- **KAIST Presidential Fellowship** 2019–2023
- **Samsung Dream Scholarship Foundation College Hope Scholarship** 2019–2023
- **Samsung Dream Scholarship Foundation Science Excellence Scholarship** 2018
- **Hansung Scholarship for Gifted Students** 2017–2018

Awards

- **Highest Honors in Mathematics** (top graduate in mathematics), Korea Science Academy 2019
- **BNK Busan Bank President's Award**, Korea Science Academy Commencement 2019

Academic Services

Conference Reviewer

- **Machine learning conference:** NeurIPS 2026, ICLR 2026
- **Computer vision conference:** ACCV 2024

Selected Open-Source Projects

1. `cmin-lee/MPMAvatar` [link]
   Official Pytorch Implementation of the MPMAvatar paper.

Teaching Experience

- **Teaching Assistant**, Artificial Intelligence and Machine Learning (CS570), KAIST Spring 2026
- **Peer Tutor**, Calculus I (MAS101), KAIST Spring 2020
- **Peer Tutor**, Calculus I (MAS101), KAIST Spring 2019