

JAEHYUN LEE

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Github: github.com/LEE-JAE-HYUN179 | Website: leejaehyun179.com

RESEARCH INTERESTS

Computer Graphics, Physics Based Animation, Deformable bodies, Fluids, Coupling, Scientific Computing, Numerical Analysis

EDUCATION

Korea University Seoul, Republic of Korea
M.S, Computer Science; GPA: 4.24/4.5 *Sep. 2021 – present*

- Research Area:

Korea University Seoul, Republic of Korea
B.S, Mechanical Engineering; GPA: 4.4/4.5 *Mar. 2015 – Feb. 2021*

- Including 2 years of Military service
- Double major in Computer Science
- Graduated with Great Honor

PUBLICATIONS

- **JaeHyun Lee**, Seung-wook Kim, Kiwon Um, Min Hyung Kee, JungHyun Han. "Inversion alleviation for stable elastic body simulation." In Computer Animation and Virtual Worlds (CAVW), Vol. 34, No. 3-4, May 2023, pp. e2183.

EXPERIENCE

Dimension Expansion method Seoul, Republic of Korea
Research Assistant *Mar. 2023 – present*

- On going project: Dimension expansion method for mass-spring model (Instructor: Dr. JungHyun Han).

Constrained Projective Dynamics (CPD) Seoul, Republic of Korea
Research Assistant *Mar. 2021*

- Implemented Collision Detection module for ACM SIGGRAPH 2021 paper "Constrained projective dynamics: real-time simulation of deformable objects with energy-momentum conservation" (Instructor: Dr. JungHyun Han).

Interactive 3D Media Lab, Korea University Seoul, Republic of Korea
Teaching Assistant *Spring 2022*

- Worked as a Teaching Assistant in the COSE331 Computer Graphics (Instructor: Dr. JungHyun Han).

SCHOLARSHIPS

Special Scholarships, Korea University *Spring, Fall 2018*

National Science and Engineering Scholarship, Ministry of Science and ICT *Spring 2019 – Fall 2020*

Research Scholarships, Korea University *Fall 2021, Fall 2022*

Kwanjeong Educational Foundation Scholarship, Kwanjeong Educational Foundation *Spring 2022 – Fall 2023*

Teaching Assistant Scholarship, Korea University *Spring 2022*

HONORS AND AWARDS

Semester High Honors, Korea University *Spring 2017 – Spring 2020*

Dean's List, Korea University *Spring 2018*

President's List, Korea University *Fall 2018 – Spring 2019*

Great Honor, Korea University *Graduation*

TECHNICAL SKILLS

Languages: C++, Python, Java

Graphics APIs: OpenGL, Cuda

Other Tools: Git, CMake, Taichi Lang, Blender