

# Sunmin Lee

PHD CANDIDATE IN COMPUTER SCIENCE AND ENGINEERING

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## Education

### Seoul National University

M.S/PH.D. IN COMPUTER SCIENCE AND ENGINEERING

- Advisors: Prof. Jungdam Won and Prof. Jehee Lee

Seoul, Korea

Mar. 2019 - Current

### Seoul National University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Cum Laude Graduation Honors

Seoul, Korea

Mar. 2014 - Feb. 2019

## Publications

### DMP: Directable Motion Retargeting by Motion Paraphrasing

SUNMIN LEE, DAVIS REMPE, YIFENG JIANG, HAOTIAN ZHANG, TINGWU WANG, JUNGDM WON, XUE BIN PENG

ACM Transactions on Graphics 2026

[Paper] [Video]

### SAME: Skeleton-Agnostic Motion Embedding for Character Animation

SUNMIN LEE, TAEHO KANG, JUNGDM PARK, JEHEE LEE, JUNGDM WON

SIGGRAPH 2023 Asia Conference Proceedings

[Project] [Paper] [Video]

### QuestEnvSim: Environment-Aware Simulated Motion Tracking from Sparse Sensors

SUNMIN LEE, SEBASTIAN STARKE, YUTING YE, JUNGDM WON, ALEXANDER WINKLER

SIGGRAPH 2023 Conference Proceedings

[Project] [Paper] [Video]

### Learning a family of motor skills from a single motion clip

SEYOUNG LEE, SUNMIN LEE, YONGWOO LEE, JEHEE LEE

ACM Transactions on Graphics (SIGGRAPH 2021)

[Project] [Paper] [Video]

### Learning Time-Critical Responses for Interactive Character Control

KYUNGHO LEE, SEHEE MIN, SUNMIN LEE, JEHEE LEE

ACM Transactions on Graphics (SIGGRAPH 2021)

[Project] [Paper] [Video]

### Learning predict-and-simulate policies from unorganized human motion data

SOOHWAN PARK, HOSEOK RYU, SEYOUNG LEE, SUNMIN LEE, JEHEE LEE

ACM Transactions on Graphics (SIGGRAPH ASIA 2019)

[Project] [Paper] [Video]

### FURL: Fixed-memory and Uncertainty Reducing Local Triangle Counting for Multigraph Streams

MINSOO JUNG, YONGSUB LIM, SUNMIN LEE, U KANG

Data Mining and Knowledge Discovery(DMKD) vol. 33, pp. 1225-1253, 2019.

[Project] [Paper]

## Honors & Awards

|      |                                                                   |                                      |
|------|-------------------------------------------------------------------|--------------------------------------|
| 2026 | Changhae Young Researcher Award Honorable Mention                 | Korea Computer Graphics Society      |
| 2025 | Google PhD Fellowship (One of fourteen recipients in HCI)         | Google                               |
| 2024 | Yulchon AI Star (One of ten recipients)                           | Yulchon Foundation, SNU AI Institute |
| 2024 | WiGraph Rising Stars in Computer Graphics (One of ten recipients) | ACM WiGraph                          |
| 2023 | ACM SIGGRAPH Conference Grant (One of five recipients)            | ACM                                  |
| 2020 | KCGS Excellence Presentation Award                                | Korea Computer Graphics Society      |

## Experience

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### NVIDIA Spatial Intelligence Lab

Seoul, Korea

PHD RESEARCH INTERN

Aug. 2025 - Aug. 2026

- Mentor: Xue Bin (Jason) Peng
- Collaborated with: Davis Rempe, Haotian Zhang, Yifeng Jiang, Tingwu Wang
- Aug 2025 - March 2026: Full-time / April 2026 - Aug 2026: Part-time

### NVIDIA Spatial Intelligence Lab

California, USA

PHD RESEARCH INTERN

Aug. 2024 - Aug. 2025

- Mentor: Xue Bin (Jason) Peng
- Collaborated with: Davis Rempe, Haotian Zhang, Yifeng Jiang, Tingwu Wang

### Meta Reality Labs

California, USA

PHD RESEARCH SCIENTIST INTERN

June. 2023 - Nov. 2023

- Mentor: Alexander Winkler
- Collaborated with: Yuting Ye, Chris D. Twigg, Harrision Jesse Smith

### Meta Reality Labs

California, USA

PHD RESEARCH SCIENTIST INTERN

Aug. 2022 - Feb. 2023

- Mentor: Alexander Winkler
- Collaborated with: Yuting Ye, Jungdam Won, Sebastian Starke

### SNU Movement Research Lab

Seoul, Korea

UNDERGRADUATE RESEARCH INTERN

Aug. 2018 - Feb. 2019

- Locomotion control using deep reinforcement learning
- Advisor: prof. Jehee Lee

### SNU Data Mining Lab

Seoul, Korea

UNDERGRADUATE RESEARCH INTERN

Jun. 2016 - Mar. 2017

- Triangle counting for multi-graph stream data
- Advisor: prof. U Kang

## Academic Services

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### Paper Reviewer

|      |                                                           |
|------|-----------------------------------------------------------|
| 2026 | SIGGRAPH, SIGGRAPH Asia, Pacific Graphics                 |
| 2025 | Eurographics, SIGGRAPH, TVCG, SIGGRAPH Asia               |
| 2024 | TVCG, SIGGRAPH, SIGGRAPH Asia, Eurographics (Short Paper) |

## Teaching

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### Instructor

|      |                                                                                               |                                 |
|------|-----------------------------------------------------------------------------------------------|---------------------------------|
| 2025 | SCA Graduate Summer School:<br>Introduction to Reinforcement Learning for Character Animation | Symposium on Computer Animation |
|------|-----------------------------------------------------------------------------------------------|---------------------------------|

### Teaching Assistant

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|-------------|---------------------------------------------------------------------------------|-----|
| 2023 Spring | Advanced Graphics: Simulation-based Methodology (Instructor: Prof. Jungdam Won) | SNU |
| 2019 Fall   | Programming Practice (Instructor: Prof. Jehee Lee)                              | SNU |
| 2019 Spring | Computer Graphics (Instructor: Prof. Jehee Lee)                                 | SNU |