Sunmin Lee

PhD Candidate in Computer Science and Engineering

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Education

Seoul National University   *Seoul, S.Korea*

M.S/Ph.D. in Computer Science and Engineering   *Mar. 2019 - Current*

- Supervisor: Jungdam Won and Jehee Lee

Seoul National University   *Seoul, S.Korea*

B.S. in Computer Science and Engineering   *Mar. 2014 - Feb. 2019*

Experience

Reality Labs Research, Meta   *California, USA*

PhD Research Scientist Intern   *June. 2023- Current*

- P.I: Alexander Winkler

Reality Labs Research, Meta   *California, USA*

PhD Research Scientist Intern   *Aug. 2022 - Feb. 2023*

- Environment-aware Motion Tracking from Sparse Sensor
- P.I: Alexander Winkler

SNU Movement Research Lab   *Seoul, S.Korea*

Undergraduate Research Intern   *Aug. 2018 - Feb. 2019*

- Locomotion Control using Deep Reinforcement Learning
- Advisor: Jehee Lee

SNU Data Mining Lab   *Seoul, S.Korea*

Undergraduate Research Intern   *Jun. 2016 - Mar. 2017*

- Triangle Counting for multi-graph stream data
- Advisor: U Kang

Publications

SAME: Skeleton-Agnostic Motion Embedding for Character Animation

Sunmin Lee, Taeho Kang, Jungnam Park, Jehee Lee, Jungdam Won

SIGGRAPH 2023 Asia Conference Proceedings (to appear)

[Project] [Video] [Paper]

QuestEnvSim: Environment-Aware Simulated Motion Tracking from Sparse Sensors

Sunmin Lee, Sebastian Starke, Yuting Ye, Jungdam Won, Alexander Winkler

SIGGRAPH 2023 Conference Proceedings

[Project] [Video] [Paper]

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] [Video] [Code]

Learning Time-Critical Responses for Interactive Character Control

Kyungho Lee, Sehee Min, **Sunmin Lee**, Jehee Lee

ACM Transactions on Graphics (SIGGRAPH 2021)

[Project] [Video] [Code]

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] [Video] [Code]

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

2023	ACM Siggraph Conference Grant	*ACM*
2019	Bachelor Cum Laude Graduation Honor	*Seoul Nat'l Univ*

Patents

Electronic device, method, and non-transitory computer readable storage medium for identifying state of visual object corresponding to user input using neural network

Kyungho Lee, Sehee Min, **Sunmin Lee**, Jehee Lee

Patent No.1020210103370

Triangles counting method for graph stream

Minsoo Jung, Yongsub Lim, **Sunmin Lee**, U Kang

Patent No.1020160183070

Press Coverage

UploadVR	Meta AI Research: Quest Body Pose Estimation With Furniture Awareness
80 LEVEL	QuestEnvSim: Environment-Aware Motion Tracking from Sparse Sensors

Teaching

2023	Teaching Assistant / Advanced Graphics: Simulation-based Methodology (Instructor: Jungdam Won)	*Seoul Nat'l Univ*
2019	Teaching Assistant / Programming Practice (Instructor: Jehee Lee)	*Seoul Nat'l Univ*
2019	Teaching Assistant / Computer Graphics (Instructor: Jehee Lee)	*Seoul Nat'l Univ*

Skills

Languages	Python, C/C++, Java
Framework	OpenGL, Pytorch, Dart, IsaacGym
Software	MotionBuilder, Blender, Unreal Engine, Maya