

Jeonghwan Kim

Reinforcement Learning · Computer Animation · Humanoid Robotics

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EDUCATION

Georgia Institute of Technology <i>PhD in Robotics (Advisor: Sehoon Ha)</i>	2023 – Present
Georgia Institute of Technology <i>MS in Electrical and Computer Engineering</i> <i>MS in Mathematics</i>	2021 – 2023
Seoul National University <i>BS in Electrical and Computer Engineering</i>	2014 – 2020 <i>summa cum laude</i>

RESEARCH EXPERIENCE

RAI Institute (formerly the Boston Dynamics AI Institute) <i>Research Intern</i> - Research on bicycle robot control and motion imitation - Publication: ICRA 2026, IEEE RA-L 2026	2024 – 2025 <i>Boston, MA</i>
3D Vision Lab, Seoul National University <i>Researcher (Advisor: Young Min Kim)</i> - Machine learning research on 3D data (voxel, pointcloud, mesh) - Publication: ICLR 2021, Eurographics Short 2021	2019 – 2020 <i>Seoul, Korea</i>
Samsung Research <i>Student Intern, Robotic Systems Department</i> Developed task manager and android tablet controller for data collection of mobile manipulator (ROS2)	2019 <i>Seoul, Korea</i>
Okuda Lab, University of Tokyo <i>Student Intern, University of Tokyo Summer Internship (UTSIP)</i> - Wireless parallel computing on low-cost mobile environment - Parallel stress analysis of layered PCB using Finite Element Analysis via Front-ISTR	2018 <i>Kashiwa, Japan</i>

PUBLICATIONS

[11] Game-Guided Skill Discovery through Self-Play for Playable Agent Control Seungeun Rho, Jeonghwan Kim, Xue Bin Peng, Sehoon Ha <i>Preprint</i>	2026
[10] Flip Stunts on Bicycle Robots using Iterative Motion Imitation Jeonghwan Kim, Shamel Fahmi, Seungeun Rho, Sehoon Ha, Gabriel Nelson <i>IEEE International Conference on Robotics and Automation (ICRA)</i>	2026
[9] LineRides: Line-Guided Reinforcement Learning for Bicycle Robot Stunts Seungeun Rho, Shamel Fahmi, Jeonghwan Kim, Arianna Ilvonen, Sehoon Ha, Gabriel Nelson <i>IEEE Robotics and Automation Letters (RA-L)</i>	2026
[8] Switch-JustDance: Benchmarking Whole-Body Motion Tracking Policies Using a Commercial Console Game Jeonghwan Kim*, Wontaek Kim*, Yidan Lu*, Jin Cheng*, Fatemeh Zargarbashi*, Zicheng Zeng*, Zekun Qi*, Zhiyang Dou, Nitish Sontakke, Donghoon Baek, Sehoon Ha, Tianyu Li (*equal contribution) <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Findings</i>	2026

Last updated: October 25, 2026

- [7] **Safe Navigation of Bipedal Robots via Koopman Operator-Based Model Predictive Control** 2026
Jeonghwan Kim, Yunhai Han, Harish Ravichandar, Sehoon Ha
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- [6] **Switch4EAI: Leveraging Console Game Platform for Benchmarking Robotic Athletics** 2025
Tianyu Li, Jeonghwan Kim, Wontaek Kim, Donghoon Baek, Seungeun Rho, Sehoon Ha
Conference on Robot Learning (CoRL) Open-Source Hardware Workshop
- [5] **Validity of Feature Importance in Low-Performing Machine Learning for Tabular Biomedical Data** 2025
Youngro Lee, Giacomo Baruzzo, Jeonghwan Kim, Jongmo Seo, Barbara Di Camillo
IEEE Access
- [4] **ACE: Adversarial Correspondence Embedding for Cross Morphology Motion Retargeting from Human to Nonhuman Characters** 2023
Tianyu Li, Jungdam Won, Alexander Clegg, Jeonghwan Kim, Akshara Rai, Sehoon Ha
SIGGRAPH ASIA
- [3] **ARMP: Autoregressive Motion Planning for Quadruped Locomotion and Navigation in Complex Indoor Environments** 2023
Jeonghwan Kim, Tianyu Li, Sehoon Ha
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- [2] **Auto-rigging 3D Bipedal Characters in Arbitrary Poses** 2021
Jeonghwan Kim, Hyeontae Son, Jinseok Bae, Young Min Kim
European Association for Computer Graphics (Eurographics) short paper
- [1] **Learning to generate 3D shapes with Generative Cellular Automata** 2021
Dongsu Zhang, Changwoon Choi, Jeonghwan Kim, Young Min Kim
International Conference on Learning Representations (ICLR)

TEACHING EXPERIENCE

- Computer Graphics (CS3451)** 2023
Graduate Teaching Assistant, Georgia Institute of Technology
- Computer Animation (CS4496/7496)** 2022
Graduate Teaching Assistant, Georgia Institute of Technology

APPOINTMENTS

- Graduate Research Assistant** 2023 – 2026
Georgia Institute of Technology
- Graduate Teaching Assistant** 2022 – 2023
Georgia Institute of Technology
- Graduate Research Assistant** 2022
Georgia Institute of Technology

AWARDS & HONORS

- Kwanjeong Educational Foundation Scholarship** 2018 – 2019
Kwanjeong Educational Foundation
- Academic Excellence Scholarship (Full-Funding)** 2017
Seoul National University