

Jeonghwan Kim

Robot Learning · Computer Animation · Humanoids

jkim3662@gatech.edu | jhkim.me | Google Scholar | github.com/whitealex95

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 <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

[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

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

Teaching Experience

Computer Graphics (CS3451)	2023
<i>Graduate Teaching Assistant, Georgia Institute of Technology</i>	
Computer Animation (CS4496/7496)	2022
<i>Graduate Teaching Assistant, Georgia Institute of Technology</i>	

Appointments

Graduate Research Assistant	2023 – 2026
<i>Georgia Institute of Technology</i>	
Graduate Teaching Assistant	2022 – 2023
<i>Georgia Institute of Technology</i>	
Graduate Research Assistant	2022
<i>Georgia Institute of Technology</i>	

Awards & Honors

Kwanjeong Educational Foundation Scholarship	2018 – 2019
<i>Kwanjeong Educational Foundation</i>	
Academic Excellence Scholarship (Full-Funding)	2017
<i>Seoul National University</i>	