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Education

University of Texas at Austin Ph.D. Candidate in Electrical and Computer Engineering Advisers: Yuke Zhu, Luis Sentis	Austin, TX 2021 - Present
University of Illinois at Urbana-Champaign M.S. in Mechanical Engineering Advisers: Seth Hutchinson, Soon-Jo Chung	Urbana, IL 2014 - 2016
Tohoku University B.Eng. in Mechanical and Aerospace Engineering, <i>Ranked 1st in Class</i> Adviser: Kazuya Yoshida	Sendai, Japan 2011 - 2014

Employment

Boston Dynamics AI Institute Research Intern	Cambridge, MA 2023 - 2024
Dexterity, Inc. Robotics Intern	Redwood City, CA Summer 2022
Yuikhan Co-founder, HW/controls engineer	Seoul, South Korea 2018 - 2020
Korea Institute of Science and Technology Researcher (alternative military service)	Seoul, South Korea 2016 - 2019

Teaching

University of Texas at Austin Teaching Assistant	Austin, TX
· ASE389: Learning for Dynamics and Control	Fall 2024
· EE312: Software Design and Implementation I	Summer 2021
Student Helper	
· ASE389: Learning for Dynamics and Control	Fall 2021, Fall 2022
Tohoku University Student Learning Advisor	Sendai, Japan 2013 - 2014


Honors & Awards


Best Paper Finalist, IEEE-RAS TC Whole-Body Control	2024
RMI Ambassador Award, Korea Institute of Science and Technology	2018
Hatakeyama Award, Japan Society of Mechanical Engineers	2014
Early Graduation of Excellence, Tohoku University	2014
Korea-Japan Joint Government Scholarship	2010 - 2014


Skills


Prototyping: 3D modeling, embedded systems, AR/VR, circuit design (intermediate)
Languages: Korean (native), Japanese (bilingual), English (fluent)


Publications


M. Seo*, Y. Cho*, Y. Sung, P. Stone, Y. Zhu[†], B. Kim[†], “PRESTO: Fast Motion Planning Using Diffusion Models Based on Key-Configuration Environment Representation”, *IEEE International Conference on Robotics and Automation (ICRA)*, 2025. 

M. Seo, H. Park, S. Yuan, Y. Zhu[†], L. Sentis[†], “LEGATO: Cross-Embodiment Imitation Using a Grasping Tool”, *IEEE Robotics and Automation Letters (RA-L)*, 2025. 

M. Seo, S. Han, K. Sim, S. Bang, C. Gonzalez, L. Sentis, Y. Zhu, “Deep Imitation Learning for Humanoid Loco-manipulation through Human Teleoperation”, *IEEE-RAS International Conference on Humanoid Robots (Humanoids)*, 2023. **Best Paper Finalist, IEEE-RAS TC Whole-Body Control.** 

M. Seo, R. Gupta, Y. Zhu, A. Skoutnev, L. Sentis, Y. Zhu, “Learning to Walk by Steering: Perceptive Quadrupedal Locomotion in Dynamic Environments”, *IEEE International Conference on Robotics and Automation (ICRA)*, 2023. 

J. Li, Y. Zhu, Y. Xie, Z. Jiang, M. Seo, G. Pavlakos, Y. Zhu, “OKAMI: Teaching Humanoid Robots Manipulation Skills through Single Video Imitation”, *Conference on Robotics and Learning (CoRL)*, 2024. **Oral Presentation.** 

J. Lee, M. Seo, A. Bylard, R. Sun, L. Sentis, “Real-Time Model Predictive Control for Industrial Manipulators with Singularity-Tolerant Hierarchical Task Control”, *IEEE International Conference on Robotics and Automation (ICRA)*, 2023. 

Mentoring

Jaelyn Liu (BS/MS student at UT Austin)	2025 - Present
Yiheng Ji (MS/PhD student at UT Austin)	2025 - Present
Jack Pittenger (Undergraduate's at UT Austin)	2023 - Present
Kyutae Sim (Undergraduate's at UT Austin → Master's at CMU)	2023
Steve Han (Master's at UT Austin → SW engineer at Roblox)	2022 - 2023
Alexy Skoutnev (Undergraduate's at UT Austin → PhD student at Vanderbilt)	2021 - 2022
Donghyun Ko (Master's at KIST → alternative military service)	2019

Invited Talks

“Scalable Motor Skill Learning for Diverse Robot Embodiments”	
· KAIST (hosted by Kimin Lee, remote)	2024
· Yonsei University (hosted by Youngwoon Lee)	
“Whole-Body Manipulation via Teleoperation & Invariant Representation”	
· Google DeepMind Robotics (hosted by Ryan Julian, remote)	2024
“How to Train a Humanoid Robot”	
· SXSW Interactive Workshop	2024
“Demo Collection Made Easy for Robot Autonomy in Human Environments”	
· KAIST (hosted by Joseph Lim)	2023
· Korea University (hosted by Sungjoon Choi)	
· Seoul National University (hosted by Jaeheung Park)	

Services

Conference reviewer for CoRL, ICRA, IROS
Journal reviewer for RA-L, T-ASE
Committee for UT Austin CS PhD Admissions

Press Coverage

“Video Friday: Your weekly selection of awesome robot videos”, *IEEE Spectrum*, 2024. [!\[\]\(1d3a1175dd4902218e694b9c098adb83_img.jpg\)](#)

“Watch: Robot from the University of Texas at Austin makes instant ramen”, *Yahoo News*, 2023. [!\[\]\(c507f772dba2b921f86777f01218e570_img.jpg\)](#)

“Watch this robot teach us how to cook ramen”, *Meshable*, 2023. [!\[\]\(4729e517bc6a7cd81c8025b9646574fb_img.jpg\)](#)

Leadership & Outreach

Founder, Koreans in Texas Robotics	2024
Student Volunteer, STEM Girl Day at UT Austin	2023
Vice President, UT Korean Student Association	2021 - 2022
Volunteer Lecturer, KIST Science Station	2019
Student Advisor, University House Sanjo at Tohoku University	2012 - 2014
Volunteer Teacher, Japan Emergency NGOs (JEN)	2013