

Jeongho Ahn

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Education

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- Kyushu University**, Ph.D. in Graduate School of Information Science and Electrical Engineering – Fukuoka, Japan Oct 2021-Mar 2025
- Advisor: Prof. Ryo Kuzazume
 - Thesis: 3D LiDAR-based Gait Analysis for Person Identification in Long-range Measurement Environments
- Kyushu University**, M.Eng. in Graduate School of Information Science and Electrical Engineering – Fukuoka, Japan Apr 2019-Mar 2021
- Advisor: Prof. Ryo Kuzazume
- Gachon University**, B.Eng. in Department of Electronic Engineering – Seongnam, South Korea Mar 2012-Feb 2019
- Advisor: Prof. Hyung-seok Han

Experience

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- Postdoctoral Researcher**, Kyushu University - Fukuoka, Japan Apr 2025--Present
- Research Assistant**, Kyushu University - Fukuoka, Japan Oct 2024--Mar 2025
- Research Intern**, NASA Jet Propulsion Laboratory (JPL) / California Institute of Technology (Caltech) – Pasadena, United States Feb–Apr 2024
- Software Engineer**, Living Robot Inc. – Fukuoka, Japan Oct 2020–Jan 2024

Publications – Journal Articles

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- Koki Yoshino, Kazuto Nakashima, Jeongho Ahn, Yumi Iwashita, and Ryo Kurazume. "RGB-based Gait Recognition with Disentangled Gait Feature Swapping". *IEEE Access*, Vol.12, pp. 115515–115531, 2024
- Jeongho Ahn, Kazuto Nakashima, Koki Yoshino, Yumi Iwashita, and Ryo Kurazume. "Learning Viewpoint-Invariant Features for LiDAR-Based Gait Recognition". *IEEE Access*, Vol. 11, pp. 129749–129762, 2023
- Hiroyuki Yamada, Jeongho Ahn, Oscar Martinez Mozons, Yumi Iwashita, and Ryo Kurazume. "Gait-based Person Identification using 3D LiDAR and Long Short-term Memory Deep Networks". *Advanced Robotics*, Vol. 34, No. 18, pp. 1201–1211, 2020

Publications – Conference Proceedings

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- Jeongho Ahn, Kazuto Nakashima, Koki Yoshino, Yumi Iwashita, and Ryo Kurazume. "Gait Sequence Upsampling using Diffusion Models for Single LiDAR Sensors". In *Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 658–664, 2025.1.21–24, 2025
- Koki Yoshino, Kazuto Nakashima, Jeongho Ahn, Yumi Iwashita, and Ryo Kurazume. "S2Gait: RGB-based Gait Recognition with Style Feature Sampling Data Augmentation". In *Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 375–380, 2025.1.21–24, 2025
- Jeongho Ahn, Kazuto Nakashima, Koki Yoshino, Yumi Iwashita, and Ryo Kurazume. "2V-Gait: Gait Recognition using 3D LiDAR Robust to Changes in Walking Direction and Measurement Distance". In *Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 602–607, 2022.1.9–12, 2022
- Koki Yoshino, Kazuto Nakashima, Jeongho Ahn, Yumi Iwashita, and Ryo Kurazume. "Gait Recognition using Identity-Aware Adversarial Data Augmentation". In *Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 596–601, 2022.1.9–12, 2022

Publications – Domestic Conference in Japan

Meeting on Image Recognition and Understanding (MIRU)	2022, 2023, 2024
The Robotics Society of Japan (RSJ)	2021, 2022

Research Grant

Support for Pioneering Research Initiated by the Next Generation (SPRING), Japan Science and Technology Agency (JST)	Oct 2021-Sep 2024
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Award

Outstanding Presentation Award, 3MT (Three Minute Thesis) Competition, Kyushu University	Mar 2025
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Reviewer

Journal of NeuroEngineering and Rehabilitation	2025
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Additional Information

Completed Mandatory Military Service as a Squad Leader, Military Police of the Republic of Korea Army	Oct 2014-Jul 2016
Served as the Student Representative at the Graduation Ceremony, Japanese Language Program, Fukuoka University	Oct 2018-Sep 2019

Skills

Languages: Korean, English, Japanese

Programming Languages: Python, C, C++, Java, VHDL

Machine Learning Frameworks: PyTorch, Tensorflow, Scikit-learn

Tools&DevOps: Linux, Git, Docker, OpenCV, Open3D, ROS (Robot Operating System), PCL (Point Cloud Library), Maya

Embedded Platforms: Raspberry Pi, Arduino, Intel NUC, NVIDIA Jetson AGX Orin

Devices: LiDAR, Radar, RGB-D cameras, Event cameras, Olfactory sensors