

# 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 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". in *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". in *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". in *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

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

## Research Grant

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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

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

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Journal of NeuroEngineering and Rehabilitation	2025
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## Additional Information

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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

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**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

**Sensors:** LiDAR, RADAR, RGB-D cameras, Event cameras, ToF cameras, Odor Sensors