

# Masaki Kuribayashi

**Doctor's Student** at Shigeo Morishima Laboratory,  
Graduate School of Advanced Science and Engineering,  
Waseda University.

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Doctor's Student at Waseda University. Interested in the field of Human-Computer Interaction, particularly in assistive system for supporting navigation of people with visual impairment (Accessibility). Experience in conducting user-centered & inclusive design with people with visual impairment, development of navigation systems using smartphones and robots, designing/ conducting user studies, and conducting statistical analysis. Expected to complete the Doctor's program in Mar. 2026.

## Education

Apr. 2023 - Current	<b>Doctor of Engineering</b> Graduate School of Advanced Science and Engineering, Waseda University Advisor: Shigeo Morishima
Apr. 2021 - Mar. 2023	<b>Master of Engineering</b> Graduate School of Advanced Science and Engineering, Waseda University Advisor: Shigeo Morishima
Apr. 2017 - Mar. 2021	<b>Bachelor of Science</b> Department of Physics, Waseda University Advisor: Shigeo Morishima

## Work Experience

Apr. 2023 - Current	<b>Research Fellow DC1</b> JSPS Research Fellowship for Young Scientists
Apr. 2021 - Current	<b>Research Intern</b> IBM Research - Tokyo Advisor: Chieko Asakawa, Hironobu Takagi Developed a navigation application for blind people on iOS smartphone.
Jun. 2022 - Sep. 2022	<b>Research Intern</b> Cognitive Assistance Lab, Robotics Institute, Carnegie Mellon University Advisor: Chieko Asakawa, Daisuke Sato Developed a deep learning based sign recognition model and navigation robot for blind people.

## Awards

Mar. 2021	<b>Azusa Ono Memorial Award</b> Waseda University The most prestigious award by Waseda University, which 0.014% of students receive.
Dec. 2020	<b>Best Paper Award</b> JSPS WISS 2020 (a domestic conference in Japan) An award that the top 3% of paper receives.

# Scholarship

Apr. 2023 - Mar. 2026      **JSPS Research Fellowship for Young Scientists (DC1, "Gakushin" )**

Mar. 2023      **Isao Okawa Scholarship for Information Technology Science**, Waseda University. 200k JPY

# Skills

Programming Language: **Swift, Python**

Frameworks / Platforms: **Xcode, ARKit, OpenCV, Docker**

Others:                      **XCode, Adobe CC (Illustrator, Premiere Pro, and InDesign),  
User Studies, Statistical Analysis**

# Publications

## Journal Papers and Conference Full Papers

- [1]      **Masaki Kuribayashi\***, Seita Kayukawa\*, Hironobu Takagi, Chieko Asakawa, and Shigeo Morishima (\* - equal contribution). 2021. **LineChaser: A Smartphone-Based Navigation System for Blind People to Stand in Line**. In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems. (CHI 2021). DOI: <https://doi.org/10.1145/3411764.3445451>
- [2]      **Masaki Kuribayashi**, Seita Kayukawa, Jayakorn Vongkulbhisal, Daisuke Sato, Chieko Asakawa, Hironobu Takagi, Shigeo Morishima. 2022. **Corridor-Walker: Mobile Indoor Walking Assistance for Blind People to Avoid Obstacles and Recognize Intersections**. In Proceedings of the 24th International Conference on Human-Computer Interaction with Mobile Devices and Services. (Mobile HCI 2022). DOI: <https://doi.org/10.1145/3546714>
- [3]      **Masaki Kuribayashi**, Tatsuya Ishihara, Daisuke Sato, Jayakorn Vongkulbhisal, Karnik Ram, Seita Kayukawa, Hironobu Takagi, Shigeo Morishima, and Chieko Asakawa. 2023. **PathFinder: Designing a Map-less Navigation System for Blind People in Unfamiliar Buildings**. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems. (CHI 2023). DOI: <https://doi.org/10.1145/3544548.3580687>
- [4]      Yusuke Miura, Erwin Wu, **Masaki Kuribayashi**, Hideki Koike, Shigeo Morishima. 2023. **Exploration of Sonification Feedback for People with Visual Impairment to Use Ski Simulator**. Augmented Humans 2023. (AHs 2023). DOI: <https://doi.org/10.1145/3582700.3582702>

## Short Papers and Posters

- [5]      **Masaki Kuribayashi**, Seita Kayukawa, Jayakorn Vongkulbhisal, Daisuke Sato, Chieko Asakawa, Hironobu Takagi, Shigeo Morishima. 2021. **Designing a Smartphone-Based Assistance System for Blind People to Recognize Intersections and Obstacles in Indoor Corridors**. Mobile and Ubiquitous Systems. (MobiQuitous 2021).
- [6]      Yusuke Miura, **Masaki Kuribayashi**, Erwin Wu, Hideki Koike, Shigeo Morishima. 2022. **A Study on Sonification Method of Simulator-Based Ski Training for People with Visual Impairment**. SIGGRAPH Asia 2022 Posters. (SA '22 Posters).

# Academic Service

CHI 2023 LBW External Reviewer

Mobile HCI 2023 External Reviewer

## Invited Talks

May. 2023      **Masaki Kuribayashi**, "Introduction to Accessibility Research and My Experience of “Juken”",  
Hong Kong Japanese School