

# Seita Kayukawa

## Ph. D. Student (Apr. 2020 ~)

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## Education

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<b>Apr. 2020 - Present</b>	<b>Ph. D. Student</b> Graduate School of Advanced Science and Engineering, Waseda University. Advisor: Shigeo Morishima
<b>Apr. 2018 - Mar. 2020</b>	<b>Master of Engineering</b> Graduate School of Advanced Science and Engineering, Waseda University. Advisor: Shigeo Morishima
<b>Apr. 2014 - Mar. 2018</b>	<b>Bachelor of Science</b> Department of Applied Physics, Waseda University. Advisor: Shigeo Morishima

## Work Experience

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<b>Apr. 2020 - Present</b>	<b>Research Fellow (DC1)</b> JSPS Research Fellowships for Young Scientists.
<b>Feb. 2019 - Present</b>	<b>Research Intern</b> IBM Research - Tokyo. Advisor: Tatsuya Ishihara, Hironobu Takagi, and Chieko Asakawa
<b>May 2018 - Sept. 2018</b>	<b>Research Intern</b> Cognitive Assistance Lab., Robotics Institute, Carnegie Mellon University. Advisor: Keita Higuchi, Chieko Asakawa, and Kris Kitani
<b>Apr. 2017 - Present</b>	<b>Assistant Researcher</b> JST ACCEL, OngaACCEL Project.

## Research Interests

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Human-Computer Interaction; Accessibility; Video Browsing

## Publications

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- [1] **Seita Kayukawa**, Keita Higuchi, João Guerreiro, Shigeo Morishima, Yoichi Sato, Kris Kitani, and Chieko Asakawa. 2019. **BBeep: A Sonic Collision Avoidance System for Blind Travellers and Nearby Pedestrians**. In *Proc. ACM CHI Conference on Human Factors in Computing Systems (CHI '19)*. DOI: <http://dx.doi.org/10.1145/3290605.3300282>
  
- [2] **Seita Kayukawa**, Hironobu Takagi, João Guerreiro, Shigeo Morishima, and Chieko Asakawa. 2020. **Smartphone-Based Assistance for Blind People to Stand in Lines**. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20 LBW)*. DOI: <https://doi.org/10.1145/3334480.3382954>
  
- [3] **Seita Kayukawa**, Tatsuya Ishihara, Hironobu Takagi, Shigeo Morishima, and Chieko Asakawa. 2020. **BlindPilot: A Robotic Local Navigation System that Leads Blind People to a Landmark Object**. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20 LBW)*. DOI: <http://dx.doi.org/10.1145/3170427.3189085>
  
- [4] Ryo Shimamura, **Seita Kayukawa**, Takayuki Nakatsuka, Shoki Miyagawa, and Shigeo Morishima. 2019. **A Study on the Sense of Burden and Body Ownership on Virtual Slope**. In *Proc. IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR '19 Poster)*. DOI: <http://dx.doi.org/10.1109/VR.2019.8797960>
  
- [5] **Seita Kayukawa**, Keita Higuchi, Ryo Yonetani, Masanori Nakamura, Yoichi Sato, and Shigeo Morishima. 2018. **Dynamic Object Scanning: Object-Based Elastic Timeline for Quickly Browsing First-Person Videos**. In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI '18 LBW and DEMO)*. DOI: <http://dx.doi.org/10.1145/3170427.3189085>

## Awards

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- [1] **IPSJ Yamashita SIG Research Award**. Information Processing Society of Japan (IPSJ). (Aug. 2019)
  
- [2] **Azusa Ono Memorial Award**. Waseda University. (Mar. 2019)
  
- [3] **Best Paper Award** at IPSJ Interaction 2019. (Mar. 2019)

## Scholarship

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[1] Visiting support from Super Global University (SGU), Japan. (May 2018 - Sept. 2018)

[2] Japan Student Services Organization (JASSO) Scholarship for short-term study abroad, Japan.  
(May 2018 - Aug. 2018)

## Skills

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**Programming Languages:** C++, Python, HTML, CSS

**Libraries / Platforms:** OpenCV, Qt5, ROS, Arduino, CMake

**OS:** macOS, Ubuntu

**Others:** Adobe CC (Illustrator, Premiere Pro, Photoshop)

User Studies, Statistical Analysis

Machine Learning, Courcesra MOOC by Andrew NG, Nov. 2018

Updated: Apr. 2, 2020