

# Seita Kayukawa

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## Education

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

## Work Experience

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| <b>Feb. 2019 - Present</b>  | Research Intern,<br>IBM Research - Tokyo.<br>Advisor: Tatsuya Ishihara, Hironobu Takagi, and Chieko Asakawa   |
| <b>May 2018 - Sep. 2018</b> | Research Intern,<br>Cognitive Assistance Lab., Robotics Institute, Carnegie Mellon University.<br>Advisor: Keita Higuchi, Chieko Asakawa, and Kris Kitani |
| <b>Apr. 2017 - Present</b>  | Assistant Researcher,<br>JST ACCEL, OngaACCEL Project.  |

## Research Interests

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Human-Computer Interaction; Accessibility; Video Browsing

## Scholarship

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- [1] Visiting support from Super Global University (SGU), Japan. (May 2018 - Sep. 2018)
- [2] Japan Student Services Organization (JASSO) Scholarship for short-term study abroad, Japan.  
(May 2018 - Aug. 2018)

## 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> (to appear)
- [2] 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. the 26th IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR'19 Poster)*. DOI: <http://dx.doi.org/XXXXXX/XXXXXXXXXXXXXX> (to appear)
- [3] **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>

## Award

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- [1] Best Paper Award at IPSJ Interaction 2019. (Mar. 2019)

## Skills

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

**Libraries / Platforms:** OpenCV, PyQt, openFrameworks

**OS:** macOS, Ubuntu

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

User Studies, Statistical Analysis

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

Updated: Mar. 7, 2019