

# RYOSUKE KOREKATA

+8180-7733-5773 ✉ [rkorekata@keio.jp](mailto:rkorekata@keio.jp) 🐦 [@kkrr10](https://twitter.com/kkrr10) 🌐 [github.com/kkrr10](https://github.com/kkrr10)  
📖 [Google Scholar](#) 👤 [ORCID](#) 🔗 [kkrr10.github.io](https://kkrr10.github.io)

## Education

---

- Keio University** Sep. 2024 – Present  
*Ph.D. Student of Open and Environmental Systems in Computer Science* Kanagawa, Japan
- Keio University** Apr. 2023 – Sep. 2024  
*Master of Open and Environmental Systems in Computer Science* Kanagawa, Japan  
• GPA: 3.93/4.00
- Keio University** Apr. 2019 – Mar. 2023  
*Bachelor of Science and Engineering in Computer Science* Kanagawa, Japan  
• GPA: 3.88/4.00

## Experience

---

- Keio University** Oct. 2023 – Present  
*Teaching Assistant* Kanagawa, Japan
- Toyota Motor Corporation Frontier Research Center** Aug. 2023 – Sep. 2023  
*Research Internship* Aichi, Japan
- Keio University** Apr. 2023 – Present  
*Research Assistant* Kanagawa, Japan
- Sony Corporation** Aug. 2021 - Sep. 2021  
*Software Engineer Internship* Tokyo, Japan
- Keio University AI and Advanced Programming Consortium** Oct. 2019 – Present  
*Education Internship* Kanagawa, Japan

## Publications

---

### Journal

- [K. Kaneda](#), [S. Nagashima](#), [R. Korekata](#), [M. Kambara](#), [K. Sugiura](#), “Learning-To-Rank Approach for Identifying Everyday Objects Using a Physical-World Search Engine,” **IEEE RA-L**, Vol. 9, No. 3, pp. 2088–2095, 2024. DOI: 10.1109/LRA.2024.3352363 (**IF: 5.2**)

### International Conference

- [K. Kaneda](#), [S. Nagashima](#), [R. Korekata](#), [M. Kambara](#), [K. Sugiura](#), “Learning-To-Rank Approach for Identifying Everyday Objects Using a Physical-World Search Engine,” **IEEE RA-L** presented at **IEEE/RSJ IROS**, 2024.
- [R. Korekata](#), [K. Kanda](#), [S. Nagashima](#), [Y. Imai](#), [K. Sugiura](#), “Multimodal Ranking for Target Objects and Receptacles Based on Open-Vocabulary Instructions,” **IEEE ICRA** (Late Breaking Results), 2024.
- [R. Korekata](#), [M. Kambara](#), [Y. Yoshida](#), [S. Ishikawa](#), [Y. Kawasaki](#), [M. Takahashi](#), [K. Sugiura](#), “Switching Head–Tail Funnel UNITER for Dual Referring Expression Comprehension with Fetch-and-Carry Tasks”, **IEEE/RSJ IROS**, pp. 3865–3872, 2023. DOI: 10.1109/IROS55552.2023.10342165 (**h5-index: 86**)
- [K. Kaneda\\*](#), [R. Korekata\\*](#), [Y. Wada\\*](#), [S. Nagashima\\*](#), [M. Kambara](#), [Y. Iioka](#), [H. Matsuo](#), [Y. Imai](#), [T. Nishimura](#), [K. Sugiura](#), “DialMAT: Dialogue-Enabled Transformer with Moment-Based Adversarial Training”, **IEEE/CVF CVF CVPR** (Embodied AI Workshop), 2023. (\*equal contribution, 1st Place in DialFRED Challenge)
- [R. Korekata](#), [Y. Yoshida](#), [S. Ishikawa](#), [K. Sugiura](#), “Switching Funnel UNITER: Multimodal Instruction Comprehension for Object Manipulation Tasks”, **IEEE/RSJ IROS** (Late Breaking Results), 2022.

## Awards / Fellowships / Scholarships

---

### Awards

- S. Nagashima, R. Korekata, K. Kaneda, K. Sugiura, Toyota Motor Corporation HSR Community Best Paper Award, The 41st Annual Conference of the Robotics Society of Japan, 12 Sep. 2023.
- K. Kaneda\*, R. Korekata\*, Y. Wada\*, S. Nagashima\*, M. Kambara, Y. Iioka, H. Matsuo, Y. Imai, T. Nishimura, K. Sugiura, 1st Place in **IEEE/CVF CVPR 2023 Embodied AI Workshop DialFRED Challenge**, 19 Jun. 2023. (\*equal contribution)
- R. Korekata, Nakanishi Encouragement Award, Department of Information and Computer Science, Faculty of Science and Technology, Keio University, 23 Mar. 2023. (Excellent bachelor's thesis in the department)
- R. Korekata, Commendation for Academic Excellence, Keio University, 10 Mar. 2023. (The best honors student in the department)
- M. Kambara, Y. Yoshida, K. Kaneda, S. Otsuki, R. Korekata, H. Matsuo, Y. Wada, W. Yang, K. Sugiura, Honorable Mention Award, REVERIE Challenge @ CSIG 2022, 19 Aug. 2022.
- R. Korekata, Education Contribution Award, Keio University AI and Advanced Programming Consortium, 24 Mar. 2021.
- R. Korekata, N. Shibahara, R. Ishioka, K. Kojo, T. Naoi, 2nd Place in Image Processing Contest using Raspberry Pi, SICK Japan Co. Ltd., 18 Dec. 2019.
- R. Korekata, T. Okunishi, H. Sugimoto, G. Nakamura, H. Yamaguchi, 1st Place Award in Artificial Intelligence Implementation Contest, Fuji Xerox Co. Ltd., 28 Nov. 2019.

### Fellowships

- JSPS Research Fellowship for Young Scientists (DC1), **JPY 200,000/month**, Apr. 2025 – Mar. 2028.
- JST Broadening Opportunities for Outstanding young researchers and doctoral students in Strategic areas (BOOST), **JPY 300,000/month**, Oct. 2024 – Mar. 2025.

### Scholarships

- Repayment Exemption of JASSO Scholarship (Category 1), **JPY 1,584,000**, Apr. 2023 – Sep. 2024.
- Keio Graduate School Scholarship, **JPY 500,000**, 2024.
- Keio Graduate School Scholarship, **JPY 500,000**, 2023.
- DENTSU Scholarship Foundation for Graduate Students, **JPY 1,440,000**, Apr. 2023 – Sep. 2024.
- Keio University Scholarship, **JPY 250,000**, 2022.
- Keio University Faculty of Science and Technology Alumni Association Scholarship, **JPY 600,000**, 2022.
- Keio University Scholarship, **JPY 250,000**, 2021.
- Keio University Faculty of Science and Technology Alumni Association Scholarship, **JPY 600,000**, 2021.
- Fudosan Mita-kai Scholarship, **JPY 100,000**, 2020.
- Keio University Scholarship, **JPY 500,000**, 2020.
- Keio University Iji-kai Scholarship, **JPY 800,000**, 2019.
- DENTSU Scholarship Foundation for Undergraduate Students, **JPY 3,360,000**, Apr. 2019 – Mar. 2023.

### Projects

---

#### AWS Robot Delivery Challenge 2020

Mar. 2020 – Sep. 2020

- Development of a mobile robot navigation system with teammates.
- 2nd place in semi-final and 4th place in final. (Out of 118 teams)

#### NHK Robocon 2020

Oct. 2019 – Aug. 2021

- Implemented a software architecture for a rugby robot with teammates.
- 5th place, Team Ilias from Keio University. (Out of 24 teams)

### Skills

---

**Programming** : Python, C/C++, Kotlin, Java, GAS, JavaScript, Bash, AWK, SQL, HTML, CSS

**Machine Learning Tools** : Pytorch, TensorFlow2, Keras, Scikit-learn, Pandas, Numpy, OpenCV

**Software Tools** : Git, GitHub/GitLab, Docker, ROS, Gazebo, AWS, VSCode, Android Studio, Eclipse

**Operating Systems** : Linux (Ubuntu/WSL), Windows

**Others** : TOEIC: 800, AtCoder: 1108, Amateur First-Class Radio Operator, Deep Learning for GENERAL, Driver's license in Japan