

HIROKI KAWAHARA

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Graduate School of Science and Engineering, Kagoshima University

Center for Management of Information Technologies ◇ 1-21-35, korimoto, Kagoshima, Japan

SUMMARY

1. Ph.D. candidate specializing in Human-Computer Interaction (HCI) with research experience in Human-Food Interaction and stereoscopic vision. Seeking full-time research positions in the field of interactive technologies.
2. Developed robots as part of a university circle activity and has a track record of presentations at top-tier HCI conferences and securing research funding from JST (Japan Science and Technology Agency).
3. Gained internship experience in developing web applications incorporating Large Language Models (LLMs) and analyzing communication security in vehicles, demonstrating a combination of technical skills and creative problem-solving abilities.

EDUCATION

Doctoral course of Engineering, Kagoshima University Apr 2024 - now
Intelligent Informatics Course, Advised by Professor Takayasu Fuchida & Assistant professor Kentaro Oda

Master of Engineering, Kagoshima University Apr 2022 - Mar 2024
Intelligent Informatics Course, Advised by Professor Takayasu Fuchida & Assistant professor Kentaro Oda (GPA 3.75/4.0)

Bachelor of Engineering, Kagoshima University Apr 2018 - Mar 2022
Mori Laboratory, Advised by Professor Kunihiko Mori (GPA 3.2/4.0)

TECHNICAL SKILLS

Language: Python, C, C#, Javascript(Nuxt.js), Ruby, Fortran

OS: Mac, Linux, Windows,

Cloud: GCP, Azure, Sakura's VPS

Hardware: Digital fabrication tools(3D printer, laser cutter, CNC), electrical circuit by KiCad

WORK EXPERIENCE

Unimal Inc. Jul 2023 -

Intern(Backend & Frontend)

Meta Systems Laboratory Inc. Jan 2021 -

Research Assistant

Aisin Corporation Mar 2021 - July 2021

Intern

Sazan wish, inc. Mar 2021 - July 2021

Intern

Fujitsu inc. Mar 2021

Data Science Intern

PUBLICATIONS

1. ***Hiroki Kawahara**, Kentaro Oda, Tamotsu Furuya, Toyohiko Satou, Kunihiko Mori Reproduction Of Omnidirectional Stereoscopic Images Using Parabolic Mirror Pairs The 74th Joint Conference of Electrical, Electronics and Information Engineers in Kyushu, 2021. p. 352-352. honorable mention (6%: 5 out of 80)
2. ***Hiroki Kawahara**, Kaito Yamao, Kentaro Oda, Takayasu Fuchida. "Levitation Printing: Feasibility Study of a New Food Printing Method with Ultrasound Levitation". Entertainment Computing 2024

3. ***Hiroki Kawahara**, Kaito Yamao, Kentaro Oda, Magic Drops: Food 3D Printing of Colored Liquid Balls by Ultrasound Levitation. In: Adjunct Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology. 2022. p. 1-2.(Student Innovation Contest 10 out of 21)
4. ***Hiroki Kawahara**, Kaito Yamao, Takayasu Fuchida, and Kentaro Oda, “Flavor Fusions: entertainment cooking device using ultrasound to levitate and discharge liquids to change color and flavor impressions.”, Smell, Taste, and Temperature Interfaces Workshop at CHI 2023.
5. ***Hiroki Kawahara**, Kaito Yamao, Takayasu Fuchida and Kentaro Oda. Levitation Printing: Feasibility Study of a New Food Printing Method with Ultrasound Levitation. In ICCCM’24: The 12th International Conference on Computer and Communications Management. Accepted for publication; preprint available.

AWARDS

- Grand Prize in the Spirit of Initiative Challenge Program(2022)
- Excellence Award for Graduation Thesis Presentation, Academic Year 2021
- Grand Prize in the Idea Category at the 2nd Kagoshima ICTel Awards 2021 (AED in Kagoshima)
- Idea Award at the Kyushu Summer Robocon
- Excellence Award in the Spirit of Initiative Challenge Program (2018, 2019, 2021)

VOLUNTEER

- Executive Committee(program committee) in [SAKURAJIMA HOUSE 2024](#)
- Tutor in [Security mini camp in Yamanashi 2023](#)
- Executive Committee(Web Frontend Engineer) in [SAKURAJIMA HOUSE 2022](#)
- Commiter in the Code for Kagoshima [Covid-19 Kagoshima Site](#)
- Tutor in [Security mini camp in Yamanashi 2022](#)
- [SIGGRAPH ASIA 2021 TOKYO Student Volunteer](#)

OTHER EXPERIENCE

- Completed Track D at Security Camp National Conference 2020 Online
- Completed Security Next Camp National Conference 2021 Online
- Presenter at the 2nd Kyushu Cybersecurity Symposium
- Exhibited at Maker Faire Kyoto 2023 (Physical Visualization Map of Cyber Attacks, Satsuma Lab)
- Exhibited at Maker Faire Tokyo 2023 (Granular Food Printing Project, Satsuma Lab)
- Problem setter for Tsuku CTF 2023
- Participated in CoRE:1 (The Championship of Robotics Engineers), Team Satsuma