

Takahito Murakami

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Summary: 1. Experienced engineer with 8+ accolades in a diverse portfolio of successful digital projects, including a highly-performing app and award-winning digital art. 2. Published numerous research papers in authoritative international conferences and received multiple awards and recognitions for innovation and excellent student research, focusing on areas such as HCI, digital design, and media studies.

Technical skills: Language: Python, Swift, Database: MySQL, OS: Mac, Windows, Linux

Educations

University of Tsukuba, Japan Apr 2023 – Present

Master's and Doctoral Programs in Informatics, Master's course
Digital Nature Group, Advised by Associate Professor Yoichi Ochiai

University of Tsukuba, Japan Apr 2019 – Mar 2023

Bachelor of Arts, Information and Library Sciences
Digital Nature Group, Advised by Associate Professor Yoichi Ochiai, GPA 3.16/4.0

Josai International University, Japan Apr 2018 – Mar 2019

Faculty of Media studies, Courses in Cross-media, Media Design Lab, Advised by Associate Professor Suguru Toda, Withdraw

Experiences

Projects

Kuchibashi - PM, Designer, Programmer | RhinoCeros, Fusion360, Python, MATLAB Apr 2021 – May 2023

Developed a pair of tweezers inspired by a crow's beak that could hold objects that humans could not, such as egg yolks. Received multiple international awards.

SUIT - PM | Python, JS, HTML Oct 2021

Led a five-person team to develop a mask fitting application using image recognition and synthesis. Received the top prize in the class.

AITENGA Volunteer - Art Director | Illustrator Oct 2021

Provided art direction for a project selling novelty goods and helping people with lice in Africa.

Open Campus Committee Volunteer - Web design | Vue.js Aug 2020

Redesigned the web page, increasing its reach by 180% compared to the previous year.

Surface - Programmer | Arduino (C) Nov 2018

Created an artwork expressing the boundary between people through digital art in the Media Design Lab.

Affiliation

National Institute of Advanced Industrial Science and Technology - Trainee Student

May 2021 – Mar 2023

Pioneerwork, Inc. - System Engineer (Part-time) | Notion API, JS

Developed an internal portal using Notion API and JS. Designed and developed the official website.

Sep 2020 – Jun 2021

Zenkigen, Inc. - Web Engineer (Internship) | Ruby on Rails

Learned test-driven development using Rails and performed debugging tasks.

Jan 2018 – Apr 2018

Leader Ship and Awards

1st place in Undergraduate by ACM SRC 2022-2023, "KUCHIBASHI", (0.4%: 1st out of over 249 CS students) May 2023

President's Award for Students by University of Tsukuba, "KUCHIBASHI", (Private competition rate) Mar 2023

Knowledge Capital Award (2nd Prize) by ISCA 2022, "KUCHIBASHI", (4.2%: 10 out of 236 Art students) Jan 2023

Honorable Mention by GoodDesign New Hope Award 2022, "KUCHIBASHI", (21%: 91 out of 414 Design students) Dec 2022

1st place in Undergraduate by SIGGRAPH 2022 SRC, "KUCHIBASHI", (Top of students research) Aug 2022

Excellence award, ARE2021 by University of Tsukuba, "KUCHIBASHI", (Private competition rate) Jan 2022

Winner, Ino-Vation Generation Award 2021 by Ministry of Internal Affairs and Communications, (1.4%: 288/20,269) Dec 2021

Fuller Award, KPMG Award by TCC-Advanced Program, University of Tsukuba, (Private competition rate) Dec 2020

Publications

1. **Murakami, T.**, Torii, M.G., Vargas Meza, X. and Ochiai, Y., 2023. SIGGRAPH : U : Kuchibashi: 3D-Printed Tweezers Bioinspired by the New Caledonian Crow's Beak. In ACM SRC 2022-2023 (pp. 1-5)

2. **Murakami, T.**, Torii, M.G., Vargas Meza, X. and Ochiai, Y., 2022. Kuchibashi: 3D-Printed Tweezers Bioinspired by the New Caledonian Crow's Beak. In ACM SIGGRAPH 2022 Posters (pp. 1-2).

3. Nishimura, C., Kondo, N., **Murakami, T.**, Torii, M., Niwa, R. and Ochiai, Y., 2022, June. How See the Colorful Scenery?: The Color-Centered Descriptive Text Generation for the Visually Impaired in Japan. In HCI International 2022 Posters, Proceedings, Part I (pp. 562-569). Cham: Springer International Publishing.