

Kai Kitagawa-Jones

University education (bachelor's)

- Data Science and Artificial Intelligence, Maastricht University, Netherlands (Aug 2021 – Jun 2024)
 - Selected for ke@work honours programme — internship at i-Med Technology
 - Semester group research project — the 2D/3D bin packing problem
 - Semester group research project — golf simulator and solver

Professional experience

- Research intern, i-Med Technology, Netherlands (Aug 2022 – Jun 2024)
 - A biotechnology company developing surgical head-mounted digital microscopes for use in hospitals
 - Research and implementation of real-time exposure fusion — a technique to synthesize high dynamic range (HDR) images from non-HDR images in real time (kaikitagawajones.com/files/kework_report_1.pdf)
 - Research and implementation of automatic exposure control techniques, adjusted for use with real-time exposure fusion (kaikitagawajones.com/files/kework_report_2.pdf)
 - Joint project with Quest Medical Imaging and the University of Twente — real-time tissue classification using hyperspectral imaging

Personal projects

- microcompute kaikitagawajones.com/projects_microcompute
A Vulkan general purpose GPU computing library
- DOI Lookup doi.kaikitagawajones.com
A tool for looking up research articles
- VoxRen kaikitagawajones.com/projects_voxren
A voxel-based ray tracer
- ptmv kaikitagawajones.com/projects_ptmv
A terminal app for displaying images and videos

Pre-university education

- Maths/science course, Maibara Senior High School, Maibara, Japan (2018 – 2021)
 - Studied maths, physics, chemistry, biology and geology at a high level
 - 1-year group research project — “The memory of medaka” (a fish native to Japan)
 - DNA sequence analysis workshop at Nagahama Institute of Bio-Science and Technology
- Summer workshop, Jacobs University, Bremen, Germany (2019)
 - Studied nanotechnology
 - Featured in press release by Jacobs University about the workshop
- Chuo Junior High School, Hikone, Japan (2015 – 2018)

Interests

- Remote-controlled planes — design, build, and fly
- Photography — one of my photos is on display at Hikone Municipal Hospital (Japan)
- Art — former winner of Hikone City Mayor's Prize (Japan)

Personal details

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|---------------|--|-------------|--|
| • Nationality | Japanese and British
(also Spanish residency certificate) | • Languages | English, Spanish, and Japanese |
| • Born | 3 April 2002 (City of York, UK) | • Website | kaikitagawajones.com |
| | | • Email | kaikitagawajones@gmail.com |