## Kentaro Wada

## https://wkentaro.com

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Date of birth: 31 January 1994 • Nationality: Japan • Location: Shiga, Japan

<b>EDUCATION</b>	Imperial College London		
	PhD in Computing	2018 –	2022
	Supervisor: Prof. Andrew J. Davision		
	The University of Tokyo		
	MS in Information Science and Technology	2016 -	2018
	BE in Mechano-Informatics	2012 -	2016
	Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada		
WORK	Minerva Technologies Inc., Remote (Contract)	2016 –	2022
EXPERIENCE	Tumor detection in images by deep learning, and its evaluation for approval review.		
	Corvus Robotics Inc., Remote (Contract)	2020 -	2021
	Real-time warehouse inventory inspection with drones via semantic segmentation with de	eep learn	ning.
	Honda Research Institute, Inc., Tokyo (Summer internship)		2014
	Autonomous safety braking system for driver assistance with deep learning.		
	<b>Donuts Co. Ltd.,</b> Tokyo (Part-time)	2013 –	2014
	Web system engineer for E-commerce shops using PHP, SQL, and HTML/CSS.		
DISTINCTION	Contributions to the Open Source Community on GitHub	2015 -	2022
	Created popular software with 1-8k stars and 500-1000 daily traffics (e.g., <u>Labelme</u> , <u>Gdo</u>	<u>wn</u> ).	
	PhD President's Scholarship of Imperial College London	2018 –	2022
	One of the fifty PhD students for the full funded scholarship*1.		
	Two Patents on Object 6D Pose Estimation		2021
	Invented methods for 3D object-level scene understanding using vision sensors*2, 3.		
	IEEE Robotics and Automation Society Japan Joint Chapter Young Award at IROS 2018		2018
	One of the five Japanese students nominated with their conference papers*4.		
	Lead the UTokyo Team at the Amazon Robotics Challenge	2015 –	2017
	Won the 5th place our of 16 teams in 2016. Mainly worked on the vision part*5.		
PUBLICATIONS	<ul> <li>Kentaro Wada, Stephen James, and Andrew J. Davison, "ReorientBot: Learning Object for Specific-Posed Placement", IEEE International Conference on Robotics and Autom</li> </ul>		

- 2022. [Paper] [Video] [Webpage]
- Edgar Sucar, Kentaro Wada, and Andrew J. Davison, "NodeSLAM: Neural Object Descriptors for Multi-View Shape Reconstruction", IEEE International Conference on 3D Vision (3DV), 2021. [Paper] [Video] [Webpage]
- Kentaro Wada, Edgar Sucar, Stephen James, Daniel Lenton, and Andrew J. Davison, "MoreFusion: Multi-object Reasoning for 6D Pose Estimation from Volumetric Fusion", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020. [Paper] [Video] [Webpage]
- Kentaro Wada, Shingo Kitagawa, Kei Okada, and Masayuki Inaba, "Instance Segmentation of Visible and Occluded Regions for Finding and Picking Target from a Pile of Objects", IEEE International Conference on Intelligent Robots and Systems (IROS), 2018. [Paper] [Video]

See more...

## **KEY SKILLS**

- Coding and software development with Python and C++ for deep learning, scene reconstruction, 2D/3D visualization, physics simulation, CLI tools, and GUI/Web applications.
- SLAM and 3D semantic scene understanding with expertise in object tracking, reconstruction, detection and pose estimation using onboard vision sensors and deep learning.
- Real-time vision and robotic system building for 3D scene understanding and motion generation with expertise in integration and design with asynchronous, distributed compute.

## INTERESTS