

Kentaro Wada

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

EDUCATION	Imperial College London PhD in Computing Supervisor: Prof. Andrew J. Davison The University of Tokyo MS in Information Science and Technology BE in Mechano-Informatics Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada	2018 – 2022 2016 – 2018 2012 – 2016
WORK EXPERIENCE	Minerva Technologies Inc. , Japan (Remote, Contract) Tumor detection in images by deep learning, and its evaluation for approval review. Corvus Robotics Inc. , San Francisco (Remote, Contract) Real-time warehouse inventory inspection with drones via semantic segmentation with deep learning. Honda Research Institute, Inc. , Tokyo (Summer internship) Autonomous safety braking system for driver assistance with deep learning. Donuts Co. Ltd. , Tokyo (Part-time) Web system engineer for E-commerce shops using PHP, SQL, and HTML/CSS.	2016 – 2022 2020 – 2021 2014 2013 – 2014
DISTINCTION	<i>Contributions to the Open Source Community on GitHub</i> Created popular software with 1-8k stars and 500-1000 daily traffics (e.g., Labelme , Gdown). <i>PhD President's Scholarship of Imperial College London</i> One of the fifty PhD students for the full funded scholarship*1. <i>Two Patents on Object 6D Pose Estimation</i> Invented methods for 3D object-level scene understanding using vision sensors*2, 3. <i>IEEE Robotics and Automation Society Japan Joint Chapter Young Award at IROS 2018</i> One of the five Japanese students nominated with their conference papers*4. <i>Lead the UTokyo Team at the Amazon Robotics Challenge</i> Won the 5th place out of 16 teams in 2016. Mainly worked on the vision part*5.	2015 - 2022 2018 – 2022 2021 2018 2015 – 2017
PUBLICATIONS	<ul style="list-style-type: none">▪ Kentaro Wada, Stephen James, and Andrew J. Davison, “ReorientBot: Learning Object Reorientation for Specific-Posed Placement”, IEEE International Conference on Robotics and Automation (ICRA), 2022. [Paper] [Video] [Webpage]▪ Kentaro Wada, Stephen James, and Andrew J. Davison, “SafePicking: Learning Safe Object Extraction via Object-Level Mapping”, IEEE International Conference on Robotics and Automation (ICRA), 2022. [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	<ul style="list-style-type: none">▪ 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	Deep Learning, 3D Computer Vision, Robotics	