

# Kentaro Wada

<https://wkentaro.com>

www.kentaro.wada@gmail.com • +44 7535-753123

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

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<b>EDUCATION</b>	<b>Imperial College London</b> PhD in Computing Supervisor: Prof. Andrew J. Davison <b>The University of Tokyo</b> MS in Information Science and Technology BE in Mechano-Informatics Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada	2018 – 2022    2016 – 2018 2012 – 2016
<b>WORK EXPERIENCE</b>	<b>Minerva Technologies Inc.</b> , Remote (Contract) Tumor detection in images by deep learning, and its evaluation for approval review. <b>Corvus Robotics Inc.</b> , Remote (Contract) Real-time warehouse inventory inspection with drones via semantic segmentation with deep learning. <b>Honda Research Institute, Inc.</b> , Tokyo (Summer internship) Autonomous safety braking system for driver assistance with deep learning. <b>Donuts Co. Ltd.</b> , Tokyo (Part-time) Web system engineer for E-commerce shops using PHP, SQL, and HTML/CSS.	2016 – 2022   2020 – 2021 2014  2013 – 2014
<b>DISTINCTION</b>	<i>Contributions to the Open Source Community on <a href="#">GitHub</a></i> Created popular software with 1-8k stars and 500-1000 daily traffics (e.g., <a href="#">Labelme</a> , <a href="#">Gdown</a> ). <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
<b>PUBLICATIONS</b>	<ul style="list-style-type: none"><li>▪ 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. <a href="#">[Paper]</a> <a href="#">[Video]</a> <a href="#">[Webpage]</a></li><li>▪ 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. <a href="#">[Paper]</a> <a href="#">[Video]</a> <a href="#">[Webpage]</a></li><li>▪ 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. <a href="#">[Paper]</a> <a href="#">[Video]</a> <a href="#">[Webpage]</a></li><li>▪ 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. <a href="#">[Paper]</a> <a href="#">[Video]</a></li></ul>	<a href="#">See more...</a>
<b>KEY SKILLS</b>	<ul style="list-style-type: none"><li>▪ <b>Coding and software development</b> with Python and C++ for deep learning, scene reconstruction, 2D/3D visualization, physics simulation, CLI tools, and GUI/Web applications.</li><li>▪ <b>SLAM and 3D semantic scene understanding</b> with expertise in object tracking, reconstruction, detection and pose estimation using onboard vision sensors and deep learning.</li><li>▪ <b>Real-time vision and robotic system building</b> for 3D scene understanding and motion generation with expertise in integration and design with asynchronous, distributed compute.</li></ul>	
<b>INTERESTS</b>	Deep Learning, 3D Computer Vision, Robotics	