

Kentaro Wada

Hammersmith, London, United Kingdom

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

Date of birth: 31 January 1994 • Nationality: Japan • Portfolio: wkentaro.com

EDUCATION	Imperial College London PhD in Computing Supervisor: Prof. Andrew J. Davison	2018 – 2022
	The University of Tokyo MS in Information Science and Technology BE in Mechano-Informatics Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada	2016 – 2018 2012 – 2016
DISTINCTION	PhD President's Scholarship of Imperial College London <i>Full funded scholarship, and fifty PhD students are selected each year.</i>	2018 – 2022
	IEEE Robotics and Automation Society Japan Joint Chapter Young Award at IROS2018 <i>Five Japanese students are nominated based on their papers at the conference.</i>	2018
	Google Summer of Code Student <i>Completed an open source project from the Open Source Robotics Foundation.</i>	2016
PUBLICATIONS	<p>Kentaro Wada, Stephen James, and Andrew J. Davison, “ReorientBot: Learning Object Reorientation for Specific-Posed Placement”, <i>IEEE International Conference on Robotics and Automation (ICRA)</i>, 2022. [Paper] [Video]</p> <p>Kentaro Wada, Stephen James, and Andrew J. Davison, “SafePicking: Learning Safe Object Extraction via Object-Level Mapping”, <i>IEEE International Conference on Robotics and Automation (ICRA)</i>, 2022. [Paper] [Video]</p> <p>Kentaro Wada, Edgar Sucar, Stephen James, Daniel Lenton, and Andrew J. Davison, “MoreFusion: Multi-object Reasoning for 6D Pose Estimation from Volumetric Fusion”, <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2020. [Paper] [Video]</p> <p>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”, <i>IEEE International Conference on Intelligent Robots and Systems (IROS)</i>, 2018. [Paper] [Video]</p> <p>Kentaro Wada, Kei Okada, and Masayuki Inaba, “Probabilistic 3D Multilabel Real-time Mapping for Multi-object Manipulation”, <i>IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i>, 2017. [Paper] [Video]</p>	
RESEARCH EXPERIENCE	Leading the UTokyo Team at the Amazon Robotics Challenge <i>JSK Robotics Laboratory at the University of Tokyo</i> <ul style="list-style-type: none">Objectives: To develop a robust state-of-the-art robot picking system for warehouse automation. 2015 edition: Verification based robust picking system by in-hand recognition. 2016 edition: Deep learning based 3D semantic segmentation. 2017 edition: Few-shot deep learning of novel object segmentation using only instance images.	2015 – 2017
KEY SKILLS	<ul style="list-style-type: none">Programming skills, especially with Python and C++, trained in the research use and contributions to open source projects at GitHub.Experience and knowledge of constructing a large robot vision system integrating various kinds of hardware and software with the Robot Operating System (ROS).Knowledge of deep learning implementation with the frameworks including, Chainer, PyTorch and Caffe, and GPU computing using CUDA.	
INTERESTS	Deep Learning, 3D Computer Vision, Robotic Manipulation.	