

Kentaro Wada

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

EDUCATION	Imperial College London PhD in Computing 2018 – 2022 Supervisors: Prof. Andrew Davison, Dr. Stefan Leutenegger
	University of Tokyo MS in Information Science and Technology 2016 – 2018 BE in Mechano-Informatics 2012 – 2016 Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada
DISTINCTION	PhD President’s Scholarship of Imperial College London 2018 – 2022 <i>Full funded scholarship, and fifty PhD students are selected each year.</i> IEEE Robotics and Automation Society Japan Joint Chapter Young Award at IROS2018 2018 <i>Five Japanese students are nominated based on their papers at the conference.</i> Google Summer of Code Student 2016 <i>Completed an open source project from the Open Source Robotics Foundation.</i>
PUBLICATIONS	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] Kentaro Wada , Kei Okada, and Masayuki Inaba, “Joint Learning of Instance and Semantic Segmentation for Robotic Pick-and-Place with Heavy Occlusions in Clutter”, <i>IEEE International Conference on Robotics and Automation (ICRA)</i> , 2019. [Paper] [Video] 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] 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] Kentaro Wada , Makoto Sugiura, Iori Yanokura, Yuto Inagaki, Kei Okada, and Masayuki Inaba, “Pick-and-Verify: Verification-based Highly Reliable Picking System for Various Target Objects in Clutter”, <i>Journal of Advanced Robotics</i> , 2017. [Paper] [Video]
RESEARCH EXPERIENCE	Leading the UTokyo Team at the Amazon Robotics Challenge 2015 – 2017 <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.
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, Real-time SLAM, Robotic manipulation.