

# Kentaro Wada

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## EDUCATION

### The University of Tokyo, Bunkyo-ku, Tokyo, Japan

- Master of Computer Science (M.S.) in Creative Informatics of Information Science and Technology  
Sep 2016 – Present
  - Thesis: Study of Robotic Manipulation with Learning for Object Segmentation
  - Supervisors: Prof. Masayuki Inaba and Assistant Prof. Kei Okada
  - Focus: Machine Learning, 3D Vision, Robotic Manipulation
- Bachelor of Science (B.S.) in Mechano-Informatics, Engineering Department Apr 2012 – Mar 2016
  - Thesis: Learning for Picking through Experience of Verification-based Perception System
  - Supervisors: Prof. Masayuki Inaba and Assistant Prof. Kei Okada
  - Focus: Machine Learning, 3D Vision, Robotic Manipulation
  - Studied in Science II Course in Apr 2012 – Sep 2014, before the decision of department in Oct 2014

## RESEARCH EXPERIENCE

### JSK Robotics Laboratory, The University of Tokyo

- Graduate Research Student, Computer Science Department Oct 2016 – Present
  - Project: Study of Robotic Manipulation with Learning for Object Segmentation (Master Thesis)
  - Supervisors: Prof. Masayuki Inaba and Assistant Prof. Kei Okada
  - Focus: Deep Learning, 3D Vision, Robotic Manipulation
- Research Assistant Oct 2015 – Sep 2016
  - Project: Picking General Objects with Verification-based Vision System
  - Supervisors: Assistant Prof. Kei Okada
  - Focus: Deep Learning, 3D Vision, Robotic Manipulation
- Undergraduate Research Student, Engineering Department Apr 2015 – Mar 2016
  - Project: Learning for Picking through Experience of Verification-based Perception System (Bachelor Thesis)
  - Supervisors: Prof. Masayuki Inaba and Assistant Prof. Kei Okada
  - Focus: Deep Learning, 3D Vision, Robotic Manipulation

### Tanaka Kenji Laboratory, The University of Tokyo

- Research Assistant May 2014 – Mar 2015
  - Project: Customer Clustering with Big Data Analysis of Purchase History
  - Supervisors: Associate Prof. Kenji Tanaka
  - Focus: Machine Learning, Data Mining

## PUBLICATIONS

### JOURNALS

- [1] K. Wada, I. Yanokura, M. Sugiura, Y. Inagaki, K. Okada, and M. Inaba, “Pick-and-Verify: Verification-based Highly Reliable Picking System for Various Target Objects in Clutter”, *Journal of Advanced Robotics*, (To appear)

### INTERNATIONAL CONFERENCES

- [2] K. Wada, M. Murooka, K. Okada, and M. Inaba, “3D Object Segmentation for Shelf Bin Picking by Humanoid with Deep Learning and Occupancy Voxel Grid Map”, in *Proceedings of the 2016 IEEE-RAS International Conference on Humanoid Robotics (Humanoids 2016)*, Cancun, Mexico. Nov 2016.
- [3] Y. Furuta, K. Wada, M. Masaki, S. Nozawa, Y. Kakichi, K. Okada and M. Inaba, “Transformable Semantic Map Based Navigation using Autonomous Deep Learning Object Segmentation”, in *Proceedings of the 2016 IEEE-RAS International Conference on Humanoid Robotics (Humanoids 2016)*, Cancun, Mexico. Nov 2016.

### DOMESTIC CONFERENCES

## PROFESSIONAL AFFILIATIONS & ACTIVITIES

### Society of Professional Earth Scientists, New York, USA

- Member 2009 – Present

<b>OTHER WORK EXPERIENCE</b>	<b>Alpha Engineering Firm, Oakland, Ohio, USA</b> ■ Project Officer, Research & Development Division Oct 2007 – Jan 2008 <ul style="list-style-type: none"> <li>• Nullam venenatis egestas nisl eget elementum.</li> <li>• Nulla finibus justo vel turpis efficitur, non lacinia orci maximus. Proin rhoncus, felis vel hendrerit lacinia, enim ipsum ultricies massa, sit amet interdum nisi massa sit amet justo.</li> <li>• Etiam vitae eros mollis, consectetur quam quis, molestie massa.</li> </ul>
<b>LANGUAGES</b>	■ Japanese: Native language. ■ English: Fluent (listening, speaking, reading, writing). ■ Chinese: Basic (listening, speaking, reading, writing).
<b>SKILLS</b>	■ Programming Languages: Python, C++, C, Bash, Zsh, HTML, CSS, Javascript, PHP, Lisp ■ Frameworks: ROS, PCL, OpenCV, scikit-image, Chainer, Caffe, scikit-learn, django
<b>INTERESTS</b>	Basketball, western art, piano.
<b>REFERENCES</b>	■ <b>Professor Masayuki Inaba</b> Professor of Mechano-Informatics Department The University of Tokyo 73A1, Engineering Building NO. 2, 7-3-1, Hongo, Bunkyo-ku, Tokyo, 1138656, Japan inaba@jsk.imi.i.u-tokyo.ac.jp • +81 (3) 5841-7416  ■ <b>Assistant Professor Kei Okada</b> Assistant Professor of Mechano-Informatics Department The University of Tokyo 73A2, Engineering Building NO. 2, 7-3-1, Hongo, Bunkyo-ku, Tokyo, 1138656, Japan k-okada@jsk.imi.i.u-tokyo.ac.jp • +81 (3) 5841-7416

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