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# KATSUNORI OHNISHI

## email:

ohnishi [at] mi.t.u-  
tokyo.ac.jp

## address:

7-3-1 Hongo  
Bunkyo-ku, Tokyo,  
Japan  
+81-3-5841-8987

## Education

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**M.S. in Information Science and Technology, The University of Tokyo**

**Apr. 2015 - March. 2017**

Theme: Action Recognition, Egocentric Vision

**B.S. in Mechano-Infomatics, The University of Tokyo**

**Apr. 2011 - Mar. 2015**

Thesis: Robust Ego-Activities Detection of Daily Living in Diversity  
Environment with a Wrist-mounted Camera (Prof. T. Harada)

## Research Experiences

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**Visiting Student**

**May. 2016 - Aug. 2016**

Johns Hopkins University: working with Prof. Austin Reiter and Prof.  
Gregory D. Hager

Theme: Deep representations for 3D object recognition

**Research Intern**

**Aug. 2015**

NTT Corporation: NTT Communication Science Laboratories, Kyoto

Theme: Speech recognition with Network in Network, under the  
supervision of Dr. Tatsuya Yoshioka

**Student**

**April. 2014 - Present**

The University of Tokyo: under the supervision of Prof. Tatsuya Harada

Theme: Egocentric vision, action recognition, large-scale object  
recognition, movie description

## Publications

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[1] **Katsunori Ohnishi**, Atsushi Kanehira, Asako Kanezaki, and Tatsuya Harada, "Recognizing Activities of Daily Living with a Wrist-mounted Camera," CVPR, 2016. **Spotlight presentation** (acceptance rate=9.7%)

[2] Andrew Shin, **Katsunori Ohnishi**, and Tatsuya Harada, "Beyond Caption to Narrative: Video Captioning with Multiple Sentences," ICIP, 2016.

[3] Takuya Yoshioka, **Katsunori Ohnishi**, Fuming Fang, and Tomohiro Nakatani, "Noise Robust Speech Recognition using Recent Developments in Neural Networks for Computer Vision," ICASSP, 2016.

[4] **Katsunori Ohnishi**, Masatoshi Hidaka, and Tatsuya Harada, "Improved Dense Trajectory with Cross Streams," arXiv.

[5] Andrew Shin, Masataka Yamaguchi, **Katsunori Ohnishi**, and Tatsuya Harada, "Dense Image Representation with Spatial Pyramid VLAD Coding of CNN for Locally Robust Captioning," arXiv.

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## Work Experiences

**Algorithm Developer in Medical Image Processing** Jun. 2015 - Apr. 2016  
Ziosoft, Inc., Tokyo

Topic: Automatic recognition from MR image and CT image

**Mentor, research seminar for undergraduate** Oct. 2015 - Jan. 2016  
The University of Tokyo

Theme: Image detection with Convolutional Neural Networks

**Teaching Assistant, "Real world recognition"** Oct. 2015  
The University of Tokyo

**Preparatory School Teacher** Apr. 2012 - Mar. 2014  
Sundai Preparatory School, Tokyo

Personal Teaching: Mathematic, Physics, and Chemistry for junior high school and high school student

## Funding sources

[1] Japan Public-Private Partnership Student Study Abroad Program (Full-funded scholarship for visiting research) May. 2016 - Aug. 2016

## Invited Talks

[1] **Katsunori Ohnishi**, Atsushi Kanehira, Asako Kanazaki, and Tatsuya Harada, "Recognizing Activities of Daily Living with a Wrist-mounted Camera (CVPR 2016)," the 19th Meeting on Image Recognition and Understanding, 2016.

## Competitions

[1] ILSVRC 2015 in conjunction with ICCV 2015 (**Invited poster**) the 3rd place in the task 1b: Object detection with additional training data Masataka Yamaguchi, Qishen Ha, **Katsunori Ohnishi**, Masatoshi Hidaka, Yusuke Mukuta, Tatsuya Harada

[2] THUMOS Challenge 2015 in conjunction with CVPR 2015 the 9th place in the task 1: action classification  
**Katsunori Ohnishi** and Tatsuya Harada

## Skills

**Technical Skills:** Matlab (50%), Python (45%), C++ (5%)

**Embedded Systems:** Arduino

**Toolkits/Frameworks:** Chainer, Caffe, OpenCV

**Interests & Activities:** Baseball, Fencing

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