

# YI LI

liyil4.github.io  
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## EDUCATION

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### University of Washington

Sep. 2018 -

Ph.D. student, advised by Prof. Dieter Fox  
Paul G. Allen School of Computer Science and Engineering

### Tsinghua University

Aug. 2014 - Jun. 2017

Master of Science

Outstanding Student in the Beijing Region

Department of Automation

### Tsinghua University

Aug. 2010 - Jun. 2014

Bachelor of Engineering

GPA: 90/100 Rank: 17/155

Department of Automation

## PUBLICATIONS

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(\* indicates equal contribution)

**Yi Li**, Gu Wang, Xiangyang Ji, Yu Xiang, Dieter Fox

DeepIM: Deep Iterative Matching for Object Pose Estimation

In *European Conference on Computer Vision (ECCV)*, 2018 (oral)

Jifeng Dai\*, Haozhi Qi\*, Yuwen Xiong\*, **Yi Li\***, Guodong Zhang\*, Han Hu, Yichen Wei

Deformable Convolutional Networks

In *International Conference on Computer Vision (ICCV)*, 2017 (oral).

**Yi Li\***, Haozhi Qi\*, Jifeng Dai, Xiangyang Ji, Yichen Wei

Fully Convolutional Instance-aware Semantic Segmentation

In *Computer Vision and Pattern Recognition (CVPR)*, 2017 (spotlight)

Jifeng Dai, **Yi Li**, Kaiming He, Jian Sun

R-fcn: Object detection via region-based fully convolutional networks

In *Advances in Neural Information Processing Systems (NIPS)*, 2016

Jifeng Dai, Kaiming He, **Yi Li**, Shaoqing Ren, Jian Sun

Instance-sensitive fully convolutional networks

In *European Conference on Computer Vision (ECCV)*, 2016

## RESEARCH EXPERIENCE

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### Robotics and State Estimate Lab, University of Washington

Sep. 2018 - Present

*Research Assistant*

*supervised by Prof. Dieter Fox*

- Research on object pose estimation and tracking with only RGB images

DeepIM project page: <https://rse-lab.cs.washington.edu/projects/deepim/>

### Broadband Network and Multimedia Lab, Tsinghua University

Sep. 2017 - Jun. 2018

*Research Assistant*

*supervised by Prof. Xiangyang Ji*

- continue the research at the University of Washington

### Robotics and State Estimate Lab, University of Washington

Jun. 2017 - Sep. 2017

*Visiting Student*

*supervised by Prof. Dieter Fox and Dr. Yu Xiang*

- Research on object pose estimation with only RGB images.

**Visual Computing Group, Microsoft Research Asia**

Nov. 2015 - Jun. 2017

*Research Intern*

*supervised by Dr. Jifeng Dai and Dr. Yichen Wei*

- Participated in developing Deformable Convolution Network accepted in ICCV 2017 (oral)

Propose a novel way to do roi-pooling method which can help the network better deal with the variance of scale and rotation of objects in images

Get the state-of-the-art performance in object detection and semantic segmentation

- Developed instance-aware segmentation framework FCIS accepted in CVPR 2017 (spotlight)

Pushed forward the state-of-the-art performance by at least 30 relative percent

Won the first prize in the MS COCO Object Detection(SEGM) Challenge 2016 by a large margin

- Participated in developing fast and accurate object detection method R-FCN accepted in NIPS 2016

Achieve competitive results on the PASCAL VOC dataset

- Participated in developing Instance FCN accepted in ECCV 2016

A novel method to generate instance-level segment candidates

**Broadband Network and Multimedia Lab, Tsinghua University**

Feb. 2014 - Jun. 2017

*Research Assistant*

*supervised by Prof. Xiangyang Ji*

- Investigated methods using deep convolution networks to do salience detection and generate bounding box candidates

**Broadband Network and Multimedia Lab, Tsinghua University**

Sep. 2012 - Feb. 2014

*Research Assistant*

*supervised by Prof. Yebin Liu*

- Investigated methods using the Time-of-Flight information to reconstruct objects behind the corner.

## AWARDS

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Reviewer of AAAI 2018, CVPR 2018, ICCV 2019

Outstanding 2017 Master Thesis by Chinese Institute of Electronics (10 in China)

Outstanding 2017 Graduate Student in Beijing

Outstanding 2016 Intern in MSRA

1st Prize in MSCOCO 2016 Object Detection Challenge

2013 National Scholarship

2012 Tsinghua Alumni Zheng Geru Scholarship

## SKILLS

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Proficient in Python, C/C++, MATLAB

Experience with Pytorch, MxNet, Caffe, CUDA

Languages: Chinese (Native), English (Fluent)