



# Yida WANG

PH.D STUDENT · COMPUTER VISION AND MACHINE LEARNING

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🌐 Yida Wang | 📧 Yida Wang

## Education

### Technische Universität München

PH.D IN COMPUTER AIDED MEDICAL IMAGE PROCESSING AND AUGMENTED REALITY

- Mentor Dr. Federico Tombari, Advisor Prof. Nassir Navab

Munich, Germany

Jun. 2017

### Beijing University of Posts and Telecommunications

M.S. IN PATTERN RECOGNITION AND INTELLIGENT SYSTEM

- Ranking **1st** among 760 students in 2016 -average score: 83.04(GPA: 3.32) -major score: 85.38(GPA: 3.42)

Beijing, PRC

Sep. 2014 - Mar. 2017

### Beijing University of Posts and Telecommunications

B.S. IN INFORMATION AND COMMUNICATION ENGINEERING

- Ranking **top 20%** among 800 students in 2014 -average score: 87.95(GPA: 3.52) -major score: 89.5(GPA: 3.58)

Beijing, PRC

Sep. 2010 - Jul. 2014

## Skills

**Programming** Matlab, Scilab, C/C++, Python2/3, LaTeX

**Machine Learning** Bayesian Theory, Linear Analysis, Caffe, TensorFlow, OpenCV, tiny-dnn

**Languages** English(TOEFL: 92; GRE math: 163; CET-4: 613; CET-6: 552), Chinese, Deutsch

## Publications

### 2D and 3D manifold learning topics

YIDA WANG AND FEDERICO TOMBARI

CVPR 2018 draft

Oct. 2017

### Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models

YIDA WANG AND WEIHONG DENG

IEEE Trans Image Processing - in revision

Oct. 2017

### ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models

YIDA WANG, CAN CUI AND WEIHONG DENG

ACCV 2016

Jul. 2016

### Self-restraint Object Recognition by Model Based CNN Learning

YIDA WANG AND WEIHONG DENG

ICIP 2016 - Oral

May. 2016

### CNTK on Mac: 2D Object Restoration and Recognition Based on 3D Model

YIDA WANG

Microsoft Faculty Summit 2016

Jul. 2016

### Large-Scale 3D Shape Retrieval from ShapeNet Core55

CO-AUTHOR

EG 2016 workshop on 3D OR

Mar. 2016

## OpenCV API page on 3D object pose estimation based on CNN (online doc for OpenCV)

[OpenCV 3.1](#)

YIDA WANG, MANUELE TAMBURRANO AND STEFANO FABRI

Sep. 2015

## Face Recognition Using Local PCA Filters

[CCBR 2015](#)

YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG

Apr. 2015

## Honors & Awards

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2016	<b>Award</b> , National Scholarship for Master Students (top scholarship in China) 2016	<a href="#">Beijing, PRC</a>
2016	<b>1st prize</b> , Innovation Awards of BUPT 2016	<a href="#">Beijing, PRC</a>
2016	<b>2nd prize</b> , Microsoft Open Source Challenge 2016	<a href="#">Redmond, U.S.A</a>
2016	<b>Award</b> , 1st rank BUPT scholarship	<a href="#">Beijing, PRC</a>
2015	<b>Award</b> , Excellent Master Student of BUPT	<a href="#">Beijing, PRC</a>
2015	<b>Award</b> , 1st rank BUPT scholarship	<a href="#">Beijing, PRC</a>
2014	<b>Award</b> , Excellent Graduate of Beijing City	<a href="#">Beijing, PRC</a>
2013	<b>1st prize</b> , SCILAB Scientific open source Contest	<a href="#">Hefei, PRC</a>
2009	<b>3rd prize</b> , National Mathematics Competition of Senior High School	<a href="#">Dalian, PRC</a>
2009	<b>1st prize</b> , National Chemistry Competition of Senior High School	<a href="#">Shenyang, PRC</a>
2009	<b>2nd prize</b> , National Physics Competition of Senior High School	<a href="#">Shenyang, PRC</a>

## Experience

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### Pattern Recognition & Intelligent System Lab

[Beijing, PRC](#)

MACHINE LEARNING RESEARCHER

Sep. 2014 - Mar. 2017

- Mentor: Weihong Deng (<http://www.pris.net.cn/introduction/teacher/dengweihong>). Doing research on face recognition, object recognition, semantic segmentation based on traditional methods and deep learning.

### Google Open Source & OpenCV

[Beijing, PRC](#)

MACHINE LEARNING RESEARCHER & SOFTWARE ENGINEER

Apr. 2015 - Sep. 2016

- Mentor: Stefano Fabri and Manuele Tamburrano. Sponsored by Google Summer of Code 2015 to 2016. Maintaining tiny-dnn project and developing 3D object recognition API. Member of project tiny-dnn with five other researchers. Here are online video demos for them with hyperlinks: 3D Object Multi-task Learning and tiny-dnn on iOS

### Alibaba

[Beijing, PRC](#)

SOFTWARE ENGINEER

Jun. 2015 - Jul. 2015

- Competitor in Tianchi Big Data Contest 2015. Predicting customers' shopping intention, ranking the 68th team in over 1500 teams from all over the world.

### WINE

[Beijing, PRC](#)

SOFTWARE ENGINEER

May. 2015 - Jun. 2015

- Character matching, Extracting feature from PCANet to match figures in OPEN SOURCE figures with standard Microsoft figures.

## Presentation

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### Microsoft Faculty Summit 2016

[Redmond, USA](#)

PRESENTER FOR 3D MODEL UTILIZATION FOR DEEP LEARNING WITH CNTK

April. 2016

- For 2nd Prize in Microsoft Open Source Challenge. Having report on Microsoft Faculty Summit 2016. Mainly implementing deep learning application based on models and photos.

### International Conference on Image Processing 2016

[Arizona, USA](#)

PRESENTER FOR SELF-RESTRAINT OBJECT RECOGNITION

Sep. 2016

- Oral presentation for new procedure for foreground object reconstruction with deep structure using 3D models.

## Extracurricular Activity

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## BUPT

Beijing

### COURSE TAKER

2016

- Probabilistic Theory and Stochastic Process - score 93
- Pattern Recognition and Machine Learning - score 95
- High Speed Communication System - score 96

## Technical University of Munich

Munich, Germany

### TUTOR

Oct. 2017 - Mar. 2018

- Foundations of Computer Vision
- Recent Trends in 3D Computer Vision and Deep Learning
- Deep Generative Models

## Track and Field Team of BUPT

Beijing, PRC

### TEAM MEMBER

Nov. 2010 - Mar. 2017

- Gold and Bronze medal in Capital College Track and Field Games
- Bronze medal in Beijing International Triathlon 2015 in 20-24 age group

## Class 11 in SICE of BUPT

Beijing, PRC

### CLASS MASTER

Sep. 2014 - Mar. 2017

- Class Master of Class 11 in School of Information and Telecommunication Engineering.

## Caffe, OpenCV and tiny-dnn

Beijing, PRC

### OPEN SOURCE CONTRIBUTOR

Sep. 2013 - now

## Program Committees

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2016-12-12

to **Editor**, Editorial Board of Journal of Artificial Intelligence Practice

Canada

2021-12-12