



# Yida WANG

PH.D STUDENT · COMPUTER VISION AND MACHINE LEARNING

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## Education

### Technische Universität München

Munich, Germany

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

Jun. 2017

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

### Beijing University of Posts and Telecommunications

Beijing, PRC

M.S. IN PATTERN RECOGNITION AND INTELLIGENT SYSTEM

Sep. 2014 - Mar. 2017

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

### Beijing University of Posts and Telecommunications

Beijing, PRC

B.S. IN INFORMATION AND COMMUNICATION ENGINEERING

Sep. 2010 - Jul. 2014

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

## Publications

### Variational Object-aware 3D Hand Pose from a Single RGB Image

IEEE Robotics and Automation  
Letters

YIDA WANG, YAFEI GAO, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI

2019

### Adversarial Semantic Scene Completion from a Single Depth Image

IEEE International Conference on 3D  
Vision

YIDA WANG, DAVID TAN, NASSIR NAVAB AND FEDERICO TOMBARI

2018

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

IEEE Transactions on Image  
Processing

YIDA WANG AND WEIHONG DENG

2018

- Impact Factor 4.828

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

Asian Conference on Computer  
Vision

YIDA WANG, CAN CUI AND WEIHONG DENG

2016

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

IEEE International Conference on  
Image Processing

YIDA WANG AND WEIHONG DENG

2016

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

Microsoft Faculty Summit 2016

YIDA WANG

2016

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

EG 2016 workshop on 3D

CO-AUTHOR

2016

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

[OpenCV 3 and 4](#)

YIDA WANG, MANUELE TAMBURRANO AND STEFANO FABRI

2015

## Face Recognition Using Local PCA Filters

[CCBR 2015](#)

YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG

2015

## Honors & Awards

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2017 - 2019 **Award**, TUM-CAMPAR Scholarship for internal Ph.D student

[Munich, Germany](#)

2018 **Award**, Bleence Research Fellowship

[Munich, Germany](#)

2016 **Award**, National Scholarship for Master Students (top scholarship in China)

[Beijing, PRC](#)

2016 **1st prize**, Innovation Awards of BUPT

[Beijing, PRC](#)

2016 **2nd prize**, Microsoft Open Source Challenge

[Redmond, U.S.A](#)

2016 **Award**, 1st rank BUPT scholarship

[Beijing, PRC](#)

2015 **Award**, Excellent Master Student of BUPT

[Beijing, PRC](#)

2015 **Award**, 1st rank BUPT scholarship

[Beijing, PRC](#)

2014 **Award**, Excellent Graduate of Beijing City

[Beijing, PRC](#)

2013 **1st prize**, SCILAB Scientific open source Contest

[Hefei, PRC](#)

2009 **3rd prize**, National Mathematics Competition of Senior High School

[Dalian, PRC](#)

2009 **1st prize**, National Chemistry Competition of Senior High School

[Shenyang, PRC](#)

2009 **2nd prize**, National Physics Competition of Senior High School

[Shenyang, PRC](#)

## Experience

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### Bleenco

[Munich, Germany](#)

RESEARCH FELLOW

Mar. 2018 -

- Sponsored by Irman Abdić for current research projects in TUM and exploit novel researches in computer vision and machine learning.

### Google & OpenCV

[Beijing, PRC](#)

SOFTWARE ENGINEER

Apr. 2015 - Sep. 2016

- Supervised by Stefano Fabri and Manuele Tamburrano and sponsored by "Google Summer of Code" to develop tiny-dnn for deep learning and opencv cnn module for 3D object recognition. Online demos: 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.

## Skills

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**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

## 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