



# Yida WANG

PH.D STUDENT · COMPUTER VISION AND PATTERN RECOGNITION

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## Education

### Technische Universität München

Ph.D. in Computer Science

- mentored by Dr. Federico Tombari & Prof. Nassir Navab

Munich, Germany

Jun. 2017

### Beijing University of Posts and Telecommunications

M.Sc.Eng. in Electronics and Communication Engineering

- mentored by Prof. Dr. Weihong Deng
- GPA: 3.32 (major: 3.42), Beijing Excellent Graduate

Beijing, PRC

Sep. 2014 - Mar. 2017

### Beijing University of Posts and Telecommunications

B.Sc. in Communication Engineering

- mentored by Dr. Ping Chen
- GPA: 3.52 (major: 3.58), Beijing Excellent Graduate

Beijing, PRC

Sep. 2010 - Jul. 2014

## Publications

### SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI

European Conf. on Computer Vision  
(oral)

[online demo](#) 2020

### ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI

IEEE Int. Conf. Computer Vision

[online demo](#) 2019

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

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

IEEE Robot. Autom. Lett.

[online demo](#) 2019

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

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI

IEEE Int. Conf. 3D Vision

[online demo](#) 2018

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

YIDA WANG AND WEIHONG DENG

IEEE Trans. Image Processing

2018

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

YIDA WANG, CAN CUI AND WEIHONG DENG

Asian Conf. Computer Vision

2016

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

YIDA WANG AND WEIHONG DENG

IEEE Int. Conf. Image Processing

2016

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

YIDA WANG

Microsoft Faculty Summit 2016

[link](#) 2016

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

CO-AUTHOR

EG 2016 workshop on 3D

2016

## Tutorial on 3D object pose estimation & super resolution

YIDA WANG, MANUELE TAMBURRANO AND STEFANO FABRI

OpenCV 3 and 4

[link](#) 2015, 2019

## Face Recognition Using Local PCA Filters

YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG

CCBR 2015

2015

## Awards

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2020	<b>Award</b> , Excellent oversea PhD student from China	Munich, Germany
2017 - 2019	<b>Award</b> , TUM-CAMPAR Scholarship for internal Ph.D student	Munich, Germany
2018	<b>Award</b> , Bleence Research Fellowship	Munich, Germany
2016	<b>Award</b> , National Scholarship for Master Students (top scholarship in China)	Beijing, PRC
2016	<b>1st prize</b> , Innovation Awards of BUPT	Beijing, PRC
2016	<b>2nd prize</b> , Microsoft Open Source Challenge	Redmond, U.S.A
2016	<b>Award</b> , 1st rank BUPT scholarship	Beijing, PRC
2015	<b>Award</b> , Excellent Master Student of BUPT	Beijing, PRC
2015	<b>Final</b> , Tianchi Big Data Contest	Hangzhou, PRC
2015	<b>Award</b> , 1st rank BUPT scholarship	Beijing, PRC
2014	<b>Award</b> , Excellent Graduate of Beijing City	Beijing, PRC
2013	<b>1st prize</b> , SCILAB Scientific open source Contest	Hefei, PRC
2009	<b>3rd prize</b> , National Mathematics Competition of Senior High School	Dalian, PRC
2009	<b>1st prize</b> , National Chemistry Competition of Senior High School	Shenyang, PRC
2009	<b>2nd prize</b> , National Physics Competition of Senior High School	Shenyang, PRC
2013-2016	<b>Gold, Bronze medal</b> , Capital College Track and Field Games	Beijing, PRC
2015	<b>Bronze medal</b> , Beijing International Triathlon	Beijing, PRC

## Experience

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### Bleenco

RESEARCH FELLOW

Munich, Germany

Mar. 2018 -

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

### Google & OpenCV

SOFTWARE ENGINEER

Beijing, PRC

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 multi-task learning](#) and [tiny-dnn](#) on iOS.

## Skills

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<b>Programming</b>	C/C++, Python, LaTeX, CUDA, Matlab, Scilab, shell, markdown
<b>Pattern Recognition</b>	Bayesian Inference, Tensor Algebra, Deep Learning, 3D Vision
<b>Languages</b>	English (TOEFL: 92 & CET-6: 552), Chinese, Deutsch

## Extra Activity

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**CAMPAR, Technical University of Munich**

TUTOR

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

**School of Information and Communication Engineering, BUPT**

CLASS MASTER

*Munich, Germany**Oct. 2017 - Mar. 2018**Beijing, PRC**Sep. 2014 - Mar. 2017*