



# Yida WANG

PH.D STUDENT · COMPUTER VISION AND PATTERN RECOGNITION

Lillweg 13, Munich, Germany

☎ (+49) 178-127-9929 | ✉ yida.wang@tum.de | 🏠 wangyida.github.io | 📱 wangyida | 📧 yida-wang | 🌐  
Yida Wang | 📧 wangyida123@outlook.com

## Education

### Technische Universität München

Ph.D. in Computer Science

Munich, Germany

Jun. 2017 -

### Beijing University of Posts and Telecommunications

M.Sc.Eng. in Electronics and Communication Engineering

Beijing, PRC

Sep. 2014 - Mar. 2017

- major GPA: 3.42, Beijing Excellent Graduate

### Beijing University of Posts and Telecommunications

B.Sc. in Communication Engineering

Beijing, PRC

Sep. 2010 - Jul. 2014

- major GPA: 3.58, Beijing Excellent Graduate

## Publications

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

*Euro. Conf. Computer Vision (oral)*

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

[online demo](#) 2020

### Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments

*IEEE/RSJ Int. Conf. Intelligent*

*Robots and Systems*

YANYAN LI, NIKOLAS BRASCH, YIDA WANG, NASSIR NAVAB, FEDERICO TOMBARI

2020

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

*IEEE Int. Conf. Computer Vision*

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

[online demo](#) 2019

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

*IEEE Robot. Autom. Lett.*

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

[online demo](#) 2019

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

*IEEE Int. Conf. 3D Vision*

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

[online demo](#) 2018

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

*IEEE Trans. Image Processing*

YIDA WANG AND WEIHONG DENG

2018

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

*Asian Conf. Computer Vision*

YIDA WANG, CAN CUI AND WEIHONG DENG

2016

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

*IEEE Int. Conf. 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

[link](#) 2016

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

*EG 2016 workshop on 3D*

CO-AUTHOR

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

---

2020	<b>Award</b> , MLH Fellowship	<i>Munich, Germany</i>
2017 - 2020	<b>Award</b> , TUM Ph.D scholarship	<i>Munich, Germany</i>
2018-2019	<b>Award</b> , Bleence Research Fellowship	<i>Munich, Germany</i>
2016	<b>Award</b> , National Scholarship for Master Students (top scholarship in China)	<i>Beijing, PRC</i>
2016	<b>1st prize</b> , Innovation Awards of BUPT	<i>Beijing, PRC</i>
2016	<b>2nd prize</b> , Microsoft Open Source Challenge	<i>Redmond, U.S.A</i>
2016	<b>Award</b> , 1st rank BUPT scholarship	<i>Beijing, PRC</i>
2015	<b>Award</b> , Excellent Master Student of BUPT	<i>Beijing, PRC</i>
2015	<b>Final</b> , Tianchi Big Data Contest	<i>Hangzhou, PRC</i>
2015	<b>Award</b> , 1st rank BUPT scholarship	<i>Beijing, PRC</i>
2014	<b>Award</b> , Excellent Graduate of Beijing City	<i>Beijing, PRC</i>
2013	<b>1st prize</b> , SCILAB Scientific open source Contest	<i>Hefei, PRC</i>
2009	<b>3rd prize</b> , National Mathematics Competition of Senior High School	<i>Dalian, PRC</i>
2009	<b>1st prize</b> , National Chemistry Competition of Senior High School	<i>Shenyang, PRC</i>
2009	<b>2nd prize</b> , National Physics Competition of Senior High School	<i>Shenyang, PRC</i>
2016	<b>Gold medal</b> , Capital College Track and Field Games 4x400	<i>Beijing, PRC</i>
2014	<b>Bronze medal</b> , Capital College Track and Field Games 3000 steeplechase	<i>Beijing, PRC</i>
2015	<b>Bronze medal</b> , Beijing International Triathlon	<i>Beijing, PRC</i>

## Experience

---

### Facebook

RESEARCH INTERN

*Seattle, USA*

*Jun. 2021 - Oct. 2021*

- Geometric of real scanning on real eye scans with models trained from synthetic data.

### Google & OpenCV

SOFTWARE ENGINEER

*Beijing, PRC*

*Apr. 2015 - Sep. 2016*

- Develop tiny-dnn as deep learning backend for OpenCV. Demo: [3D multi-task learning](#) and [tiny-dnn on iOS](#).

## Skills

---

<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

---

### CAMPAR, Technical University of Munich

TUTOR

*Munich, Germany*

*Oct. 2017 - Mar. 2018*

- 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

*Beijing, PRC*

*Sep. 2014 - Mar. 2017*