



# Yida WANG

PH.D STUDENT · COMPUTER VISION AND PATTERN RECOGNITION

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## 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 - major GPA: 3.42

Beijing, PRC

Sep. 2014 - Mar. 2017

### Beijing University of Posts and Telecommunications

B.Sc. in Communication Engineering - major GPA: 3.58

Beijing, PRC

Sep. 2010 - Jul. 2014

## Publications

### Self-supervised Latent Space Optimization with Nebula Variational Coding

T-PAMI (final revision)

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

2021

### SoftPool++: An Encoder-Decoder Network for Point Cloud Completion

Int. J. Comput. Vis. (final revision)

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

2021

### 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

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

2020	<b>Award</b> , MLH Fellowship	Munich, Germany
2017 - 2020	<b>Award</b> , TUM Ph.D scholarship	Munich, Germany
2018-2019	<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
2016	<b>Gold medal</b> , Capital College Track and Field Games 4×400	Beijing, PRC
2014	<b>Bronze medal</b> , Capital College Track and Field Games 3000 steeplechase	Beijing, PRC
2015	<b>Bronze medal</b> , Beijing International Triathlon	Beijing, PRC

## Experience

### Facebook

RESEARCH INTERN

Seattle, USA

Jun. 2021 - Oct. 2021

- Single-view semantic 3D eye reconstruction, Facebook Reality Lab - Eye tracking team

### 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>Theoretical</b>	3D computer vision, Bayesian inference, Tensor algebra, Deep learning,
<b>Practical</b>	Source control, C/C++, Python, LaTeX, CUDA, shell, markdown, Matlab, Scilab
<b>Languages</b>	English(primary), Chinese, German

## Extra Activity

### Tutor, Technical University of Munich

Munich, Germany

Oct. 2017 - Mar. 2018

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

### Class Master, Beijing University of Posts and Telecommunications

Beijing, PRC

Sep. 2014 - Mar. 2017