# Yida WANG

PH.D STUDENT · COMPUTER VISION AND MACHINE LEARNING

*Lillweg 13, Munich, Germany*

 (+49) 151-4368-1357 | ✉ yidawang.cn@gmail.com | 🏠 wangyida.github.io | 🐙 wangyida | 📄 yida-wang |

 Yida Wang | 🅢 Yida Wang

## 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

**Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models**                                                              *IEEE TIP*

YIDA WANG AND WEIHONG DENG                                                      *2018*

- Impact Factor 4.828.

**ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models**                                                                  *ACCV 2016*

YIDA WANG, CAN CUI AND WEIHONG DENG                                             *Jul. 2016*

**Self-restraint Object Recognition by Model Based CNN Learning**          *ICIP 2016 - Oral*

YIDA WANG AND WEIHONG DENG                                                      *May. 2016*

**CNTK on Mac: 2D Object Restoration and Recognition Based on 3D Model**    *Microsoft Faculty Summit 2016*

YIDA WANG                                                                       *Jul. 2016*

**Large-Scale 3D Shape Retrieval from ShapeNet Core55**                    *EG 2016 workshop on 3D OR*

CO-AUTHOR                                                                       *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

| 2017 | **Scholarship**, 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

### 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.

# 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

### Microsoft Falculty 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

### BUPT
*Beijing*

<small>COURSE TAKER</small>                                   *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*

<small>TUTOR</small>                                   *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*

<small>TEAM MEMBER</small>                                   *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*

<small>CLASS MASTER</small>                                   *Sep. 2014 - Mar. 2017*

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

### Caffe, OpenCV and tiny-dnn
*Beijing, PRC*

<small>OPEN SOURCE CONTRIBUTOR</small>                                   *Sep. 2013 - now*


# Program Committees

2016-12-12
    to    **Editor**, Editorial Board of Journal of Artificial Intelligence Practice     *Canada*
2021-12-12