
# Yida **WANG**

PH.D STUDENT · COMPUTER VISION AND PATTERN RECOGNITION

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## Education

**Technische Universität München** *Germany*

PH.D. *in Computer Science*

**Beijing University of Posts and Telecommunications** *PR. China*

M.SC.ENG. *in Electronics and Communication Engineering - major GPA: 3.42*

**Beijing University of Posts and Telecommunications** *PR. China*

B.SC. *in Communication Engineering - major GPA: 3.58*

## Publications

[1] **Learning Local Displacements for Point Cloud Completion**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, CVPR 2022

[2] **Self-supervised Latent Space Optimization with Nebula Variational Coding**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, T-PAMI 2022

[3] **SoftPool++: An Encoder-Decoder Network for Point Cloud Completion**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IJCV 2022

[4] **SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, ECCV 2020 ORAL DEMO

[5] **Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments**
YANYAN LI, NIKOLAS BRASCH, YIDA WANG, NASSIR NAVAB, FEDERICO TOMBARI, IROS-RAL 2020

[6] **ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, ICCV 2019

[7] **Variational Object-aware 3D Hand Pose from a Single RGB Image**
YIDA WANG, YAFEI GAO, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI, ICRA-RAL 2019 DEMO

[8] **Adversarial Semantic Scene Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI, 3DV 2018 DEMO

[9] **Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models**
YIDA WANG AND WEIHONG DENG, TIP 2018

[10] **ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models**
YIDA WANG, CAN CUI AND WEIHONG DENG, ACCV 2016

[11] **Self-restraint Object Recognition by Model Based CNN Learning**
YIDA WANG AND WEIHONG DENG, ICIP 2016

[12] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**
CO-AUTHORED, EG 2016

[13] **Face Recognition Using Local PCA Filters**
YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG, CCBR 2015

## Awards

2017-2021 **Fellowships**, [1] MLH, [2] TUM research and [3] Bleence research — *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 **Final**, Tianchi Big Data Contest — *Hangzhou, 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*
2016 **Gold medal**, Capital College Track and Field Games 4×400 — *Beijing, PRC*
2014 **Bronze medal**, Capital College Track and Field Games 3000 steeplechase — *Beijing, PRC*
2015 **Bronze medal**, Beijing International Triathlon — *Beijing, PRC*

## Experience

**Facebook Reality Lab *Research*** — *Seattle, USA*
RESEARCH INTERN — *Jun. 2021 - Oct. 2021*
- Single-view semantic 3D eye reconstruction for eye tracking

**Microsoft Research** — *Redmond, USA*
PRIZE WINNER — *Apr. 2016 - May 2016*
- Multi-thread deep learning for CNTK, getting awarded as global 2nd prize in Microsoft Faculty Summit for open source challenge.

**Google & OpenCV** — *Beijing, PRC*
SOFTWARE ENGINEER — *Apr. 2015 - Sep. 2016*
- Initial developer for tiny-dnn as deep learning backend for OpenCV, with use case *e.g.* 3D multi-task learning and tiny-dnn on iOS. Contributed 3 modules in OpenCV official library.

## Skills

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

## 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