



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 *PRC*

M.Sc.Eng. in Electronics and Communication Engineering - major GPA: 3.42

Beijing University of Posts and Telecommunications *PRC*

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] Bleeence research	<i>Munich, Germany</i>
2016	Award , National Scholarship for Master Students (top scholarship in China)	<i>Beijing, PRC</i>
2016	1st prize , Innovation Awards of BUPT	<i>Beijing, PRC</i>
2016	2nd prize , Microsoft Open Source Challenge	<i>Redmond, U.S.A</i>
2016	Award , 1 st rank BUPT scholarship	<i>Beijing, PRC</i>
2015	Award , Excellent Master Student of BUPT	<i>Beijing, PRC</i>
2015	Final , Tianchi Big Data Contest	<i>Hangzhou, PRC</i>
2015	Award , 1 st rank BUPT scholarship	<i>Beijing, PRC</i>
2014	Award , Excellent Graduate of Beijing City	<i>Beijing, PRC</i>
2013	1st prize , SCILAB Scientific open source Contest	<i>Hefei, PRC</i>
2009	3rd prize , National Mathematics Competition of Senior High School	<i>Dalian, PRC</i>
2009	1st prize , National Chemistry Competition of Senior High School	<i>Shenyang, PRC</i>
2009	2nd prize , National Physics Competition of Senior High School	<i>Shenyang, PRC</i>
2016	Gold medal , Capital College Track and Field Games 4×400	<i>Beijing, PRC</i>
2014	Bronze medal , Capital College Track and Field Games 3000 steeplechase	<i>Beijing, PRC</i>
2015	Bronze medal , Beijing International Triathlon	<i>Beijing, PRC</i>

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