



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, [CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION \(CVPR\)](#)²⁰²²
- [2] **Self-supervised Latent Space Optimization with Nebula Variational Coding**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE \(T-PAMI\)](#)²⁰²²
- [3] **SoftPool++: An Encoder-Decoder Network for Point Cloud Completion**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [INTERNATIONAL JOURNAL OF COMPUTER VISION \(IJCV\)](#)²⁰²²
- [4] **SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [EUROPEAN CONFERENCE ON COMPUTER VISION \(ECCV\)](#)²⁰²⁰ ORAL [DEMO](#)
- [5] **Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments**
YANYAN LI, NIKOLAS BRASCH, YIDA WANG, NASSIR NAVAB, FEDERICO TOMBARI, [INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS \(IROS\)-RAL](#)²⁰²⁰
- [6] **ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [INTERNATIONAL CONFERENCE ON COMPUTER VISION \(ICCV\)](#)²⁰¹⁹
- [7] **Variational Object-aware 3D Hand Pose from a Single RGB Image**
YIDA WANG, YAFEI GAO, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI, [THE IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION \(ICRA\)-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, [IEEE TRANSACTIONS ON IMAGE PROCESSING \(TIP\)](#)²⁰¹⁸
- [10] **ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models**
YIDA WANG, CAN CUI AND WEIHONG DENG, [ASIA CONFERENCE ON COMPUTER VISION \(ACCV\)](#)²⁰¹⁶
- [11] **Self-restraint Object Recognition by Model Based CNN Learning**
YIDA WANG AND WEIHONG DENG, [INTERNATIONAL CONFERENCE ON IMAGE PROCESSING \(ICIP\)](#)²⁰¹⁶
- [12] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**
CO-AUTHORED, [EUROGRAPHICS \(EG\)](#)²⁰¹⁶

Awards

2017-2021	Fellowships , [1] MLH, [2] TUM research and [3] Bleeence research	Munich, Germany
2019	Scholarships , Outstanding oversea PhD student ^{top 25 in Germany}	Munich, Germany
2016	Scholarships , National scholarship for master ^{top-tier scholarship in China}	Beijing, PRC
2016	Competetion , Innovation Awards of BUPT 1 st prize	Beijing, PRC
2016	2nd prize , Microsoft Open Source Challenge	Redmond, U.S.A
2016	Award , 1 st rank BUPT scholarship	Beijing, PRC
2015	Award , Excellent Master Student of BUPT	Beijing, PRC
2015	Final , Tianchi Big Data Contest	Hangzhou, PRC
2015	Award , 1 st 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