

# Yida WANG

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### **Education**

#### Technische Universität München Germany

Рн.D. in Computer Science

Beijing University of Posts and Telecommunications PR. China

M.Sc.Eng. in Electronics and Communication Engineering

Beijing University of Posts and Telecommunications PR. China

B.Sc. in Communication Engineering

#### **Publications**

- SecNet: Semantic Eye Completion in Implicit Field  $oxed{1}$ 
  - YIDA WANG, YIRU SHEN, DAVID JOSEPH TAN, FEDERICO TOMBARI, SACHIN TALATHI, NEURIPS GAZE MEETS ML (PMLR)<sup>2022</sup>
- Lidar Upsampling with Sliced Wasserstein Distance
  - ARTEM SAVKIN, YIDA WANG, SEBASTIAN WIRKERT, NASSIR NAVAB, FEDERICO TOMBARI, IEEE ROBOTICS AND AUTOMATION LETTERS (RAL) 2022
- 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

- Learning Local Displacements for Point Cloud Completion
  - $\textbf{YIDA WANG}, \textbf{DAVID JOSEPH TAN}, \textbf{NASSIR NAVAB}, \textbf{FEDERICO TOMBARI}, \underline{\textbf{CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)}^{2022}$
- SoftPool++: An Encoder-Decoder Network for Point Cloud Completion
  - $\textbf{YIDA WANG}, \textbf{DAVID JOSEPH TAN}, \textbf{NASSIR NAVAB}, \textbf{FEDERICO TOMBARI}, \textbf{INTERNATIONAL JOURNAL OF COMPUTER VISION (IJCV)} \\ 2022 \\ \textbf{VIDA WANG}, \textbf{DAVID JOSEPH TAN}, \textbf{NASSIR NAVAB}, \textbf{FEDERICO TOMBARI}, \textbf{INTERNATIONAL JOURNAL OF COMPUTER VISION (IJCV)} \\ \textbf{2022} \\ \textbf{20$
- ${\tt SoftPoolNet: Shape \ Descriptor \ for \ Point \ Cloud \ Completion \ and \ Classification }$ 
  - YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, EUROPEAN CONFERENCE ON COMPUTER VISION (ECCV)  $^{2020}$  oral  $^{ ext{DEMO}}$
- 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
- 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)  $^{2019}$
- 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<sup>2019</sup> DEMO
- Adversarial Semantic Scene Completion from a Single Depth Image
  - YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI,  $\underline{^{3DV}}^{2018}$   $\underline{^{DEMO}}$
- Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models  $\lceil 11 \rceil$

YIDA WANG AND WEIHONG DENG, IEEE TRANSACTIONS ON IMAGE PROCESSING (TIP) $^{2018}$ 

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) $^{2016}$ 

## Self-restraint Object Recognition by Model Based CNN Learning [13]

YIDA WANG AND WEIHONG DENG, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP)  $^{2016}$ 

#### Large-Scale 3D Shape Retrieval from ShapeNet Core55

CO-AUTHORED, EUROGRAPHICS (EG)  $^{2016}$ 

# $_{\left[15\right]}$ Face Recognition Using Local PCA Filters

**YIDA WANG**, SHASHA LI, JIANI HU AND WEIHONG DENG,  $\underline{\mathsf{CCBR}}^{2015}$ 

#### Awards

Fellows	2017-2021, MLH <sup>[1]</sup> , TUM <sup>[2]</sup> and Bleence <sup>[3]</sup>	Munich, Germany
Contest	2016, Microsoft Open Source Challenge 2 <sup>nd</sup> prize	Redmond, U.S.A
	2016, BUPT Innovation Awards 1 <sup>st</sup> prize	Beijing, PRC
	2015, Tianchi Big Data Contest final list	Hangzhou, PRC
	2013, SCILAB Scientific open source Contest 1 <sup>st</sup> prize	Hefei, PRC
	2009, National Math, Chemistry and Physics Contest of Senior High $3_N^{\mathrm{rd}}, 1_P^{\mathrm{st}}$ and $2_C^{\mathrm{nd}}$ prize	Dalian, PRC
Awards	2019, Outstanding oversea PhD student	Munich, Germany
	2017, Excellent Master Graduate of Beijing City	Beijing, PRC
	2016, National Master Scholarship	Beijing, PRC
	2014, Excellent Bachelor Graduate of Beijing City	Beijing, PRC
Others	2016, Capital College Track and Field Games 4×400 Gold medal	Beijing, PRC
	2015, Beijing International Triathlon Bronze medal	Beijing, PRC
	2014. Capital College Track and Field Games 3000 steeplechase Bronze medal	Beiiina. PRC

## Experience \_\_\_\_\_

Synthesia London, UK

RESEARCH INTERN

Jun. 2022 - Oct. 2022

• High-fidelity Neural Actor

RESEARCH INTERN

#### Facebook Reality Lab Research

Seattle, USA

Jun. 2021 - Oct. 2021

• Single-view semantic 3D eye reconstruction for eye tracking

Microsoft Research Redmond, USA

PRIZE WINNER

Apr. 2016 - May 2016

• Make multi-thread deep learning for CNTK, awarded as global 2<sup>nd</sup> prize in Microsoft open source challenge.

#### OpenCV - sponsored by Google

Beijing, PRC

SOFTWARE ENGINEER Apr. 2015 - Sep. 2016

- An initial developer of tiny-dnn, which is the deep learning backend for OpenCV.
- Contributed 3 OpenCV modules: 3D multi-task learning, quantized deep learning and super resolution.

#### **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