



# Yida WANG

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## Education

### Technical University of Munich (*Technische Universität München*)

Ph.D. in Computer Science

### Beijing University of Posts and Telecommunications

M.Sc. Eng. in Electronics and Communication Engineering

### Beijing University of Posts and Telecommunications

B.Sc. in Communication Engineering

## Publications

- [1] **GeoDrive: 3D Geometry-Informed Driving World Model with Precise Action Control**  
ANTHONY CHEN, WENZHAO ZHENG, **YIDA WANG**, XUEYANG ZHANG, KUN ZHAN, PENG JIA, KURT KEUTZER, SHANGHANG ZHANG, UNDER REVIEW
- [2] **StreetCrafter: Street View Synthesis with Controllable Video Diffusion Models**  
YUNZHI YAN, ZHEN XU, HAOTONG LIN, HAIAN JIN, HAoyu GUO, **YIDA WANG**, KUN ZHAN, XIANPENG LANG, HUJUN BAO, XIAOWEI ZHOU, SIDA PENG,  
CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)<sup>2025</sup>
- [3] **Drivedreamer4d: World Models are Effective Data Machines for 4d Driving Scene Representation**  
GUOSHENG ZHAO, CHAOJUN NI, XIAOFENG WANG, ZHENG ZHU, XUEYANG ZHANG, **YIDA WANG**, GUAN HUANG, XINZE CHEN, BOYUAN WANG, YOUYI ZHANG, WENJUN MEI,  
XINGANG WANG, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)<sup>2025</sup>
- [4] **ReconDreamer: Crafting World Models for Driving Scene Reconstruction via Online Restoration**  
CHAOJUN NI, GUOSHENG ZHAO, XIAOFENG WANG, ZHENG ZHU, WENKANG QIN, GUAN HUANG, CHEN LIU, YUYIN CHEN, **YIDA WANG**, XUEYANG ZHANG, YIFEI ZHAN, KUN ZHAN,  
PENG JIA, XIANPENG LANG, XINGANG WANG, WENJUN MEI, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)<sup>2025</sup>
- [5] **Efficient Multi-View Driving Scenes Generation Based on Video Diffusion Transformer**  
JUNPENG JIANG, GANGYI HONG, HENG TONG HU, LIJUN ZHOU, TIANYI YAN, **YIDA WANG**, KUN ZHAN, PENG JIA, XIANPENG LANG, MIAO ZHANG, ICLR W<sup>2025</sup>
- [6] **High-fidelity Endoscopic Image Synthesis by Utilizing Depth-guided Neural Surfaces**  
BAORU HUANG, **YIDA WANG**, ANH NGUYEN, DANIEL ELSON, FRANCISCO VASCONCELOS, DANAIL STOYANOV, (CVPR W)<sup>2024</sup>
- [7] **RaNeuS: Ray-adaptive Neural Surface Reconstruction**  
**YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IEEE CONFERENCE ON 3D VISION (3DV)<sup>2024</sup> [ORAL]
- [8] **SecNet: Semantic Eye Completion in Implicit Field**  
**YIDA WANG**, YIRU SHEN, DAVID JOSEPH TAN, FEDERICO TOMBARI, SACHIN TALATHI, NEURIPS GAZE MEETS ML (PMLR)<sup>2022</sup>
- [9] **Lidar Upsampling with Sliced Wasserstein Distance**  
ARTEM SAVKIN, **YIDA WANG**, SEBASTIAN WIRKERT, NASSIR NAVAB, FEDERICO TOMBARI, IEEE ROBOTICS AND AUTOMATION LETTERS (RAL)<sup>2022</sup>
- [10] **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)<sup>2022</sup>
- [11] **Learning Local Displacements for Point Cloud Completion**  
**YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)<sup>2022</sup>
- [12] **SoftPool++: An Encoder-Decoder Network for Point Cloud Completion**  
**YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, INTERNATIONAL JOURNAL OF COMPUTER VISION (IJCV)<sup>2022</sup>

- [13] **SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification**  
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [EUROPEAN CONFERENCE ON COMPUTER VISION \(ECCV\)](#)<sup>2020</sup> [ORAL] [DEMO](#)
- [14] **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 \(IROS\)](#)<sup>2020</sup>
- [15] **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 \(ICCV\)](#)<sup>2019</sup>
- [16] **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 \(ICRA\)](#)<sup>2019</sup> [DEMO](#)
- [17] **Adversarial Semantic Scene Completion from a Single Depth Image**  
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI, [IEEE CONFERENCE ON 3D VISION \(3DV\)](#)<sup>2018</sup> [DEMO](#)
- [18] **Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models**  
YIDA WANG AND WEIHONG DENG, [IEEE TRANSACTIONS ON IMAGE PROCESSING \(TIP\)](#)<sup>2018</sup>
- [19] **ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models**  
YIDA WANG, CAN CUI AND WEIHONG DENG, [ASIA CONFERENCE ON COMPUTER VISION \(ACCV\)](#)<sup>2016</sup>
- [20] **Self-restraint Object Recognition by Model Based CNN Learning**  
YIDA WANG AND WEIHONG DENG, [INTERNATIONAL CONFERENCE ON IMAGE PROCESSING \(ICIP\)](#)<sup>2016</sup>
- [21] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**  
CO-AUTHORED, [EUROGRAPHICS \(EG\)](#)<sup>2016</sup>

## Experience

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### Li Auto Inc.

SENIOR RESEARCH AND DEVELOPMENT ENGINEER

Shanghai

Jan. 2024 - now

- Dynamic 3D simulation, diffusion synthesis, and multi-agent dynamics

### Synthesia

RESEARCH INTERN

London, UK

Jun. 2022 - Oct. 2022

- High-fidelity Neural Actor

### Facebook Reality Lab

RESEARCH INTERN

Seattle, USA

Jun. 2021 - Oct. 2021

- Semantic 3D reconstruction for eye tracking

### OpenCV & Google

SOFTWARE ENGINEER

Remote

Apr. 2015 - Sep. 2016

- Developing [tiny-dnn](#), e.g. a deep learning backend; 3 submodules: [3D metric learning](#), [quantized deep learning](#) and [super resolution](#).

## Awards

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<b>Fellows</b>	2017-2021, MLH, TUM and Bleence	Munich, Germany
<b>Contest</b>	2016, <a href="#">Microsoft Open Source Challenge</a> , 2 <sub>nd</sub> Prize	Redmond, U.S.A
	2013, SCILAB Scientific Open-source Contest, 1 <sub>st</sub> Prize	Hefei
	2009, Senior High Math Contest, National 3 <sub>rd</sub> Prize	Dalian
<b>Awards</b>	2019, Award for Outstanding Self-Financed Students Abroad	Munich, Germany
	2016, National Scholarship	Beijing
	2017, Outstanding Master Graduate of Beijing City	Beijing
	2014, Outstanding Bachelor Graduate of Beijing City	Beijing
<b>Tracks</b>	2015, Beijing International Triathlon, Bronze Medal	Beijing
	2016, Capital College Track and Field 4×400m, Gold Medal	Beijing
	2014, Capital College Track and Field 3000m steeplechase, Bronze Medal	Beijing