



□ (+86) 137-1797-8744 | 🗷 wangyida1@lixiang.com | 🐔 wangyida.github.io | 🖫 wangyida | 🛅

yida-wang-910123 | S wangyida123@outlook.com

Education

Technische Universität München

Рн.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

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

StreetCrafter: Street View Synthesis with Controllable Video Diffusion Models

[2] 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) 2025

Drivedreamer4d: World Models are Effective Data Machines for 4d Driving Scene Representation

[3] 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) 2025

ReconDreamer: Crafting World Models for Driving Scene Reconstruction via Online Restoration

- [4] CHAOJUN NI, GUOSHENG ZHAO, XIAOFENG WANG, ZHENG ZHU, WENKANG QIN, GUAN HUANG, CHEN LIU, YUYIN CHEN, YIDA WANG, XUEYANG ZHANG, YIFEI ZHAN, KUN ZHAN, $Peng Jia, Xianpeng Lang, Xingang Wang, Wenjun Mei, Conference on Computer Vision and Pattern Recognition (CVPR) \\ ^{2025}$
- **Efficient Multi-View Driving Scenes Generation Based on Video Diffusion Transformer** [5]

JUNPENG JIANG, GANGYI HONG, HENGTONG HU, LIJUN ZHOU, TIANYI YAN, **YIDA WANG**, KUN ZHAN, PENG JIA, XIANPENG LANG, MIAO ZHANG, ICLR W²⁰²⁵

High-fidelity Endoscopic Image Synthesis by Utilizing Depth-guided Neural Surfaces [6]

Baoru Huang, **Yida Wang**, Anh Nguyen, Daniel Elson, Francisco Vasconcelos, Danail Stoyanov, (CVPR W) 2024

RaNeuS: Ray-adaptive Neural Surface Reconstruction [7]

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IEEE CONFERENCE ON 3D VISION (3DV) 2024 [Oral]

SecNet: Semantic Eye Completion in Implicit Field [8]

 $\textbf{YIDA WANG}, \textbf{YIRU SHEN}, \textbf{DAVID JOSEPH TAN}, \textbf{FEDERICO TOMBARI}, \textbf{SACHIN TALATHI}, \textbf{NEURIPS GAZE MEETS ML } (\textbf{PMLR})^{2022}$

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 [10]

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 [11]

 $\textbf{YIDA WANG}, \textbf{DAVID JOSEPH TAN}, \textbf{NASSIR NAVAB}, \textbf{FEDERICO TOMBARI}, \textbf{CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)} \\ \textbf{2022}$

[12]	SoftPool++: Ar	n Encoder-Decoder	Network for P	Point Cloud	Completion
------	----------------	-------------------	---------------	-------------	------------

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, INTERNATIONAL JOURNAL OF COMPUTER VISION $(\mathsf{IJCV})^{2022}$

$\lceil 13 \rceil$ 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] $^{ t DEMO}$

$\lceil 14 \rceil$ 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) 2020

ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image $\lceil 15 \rceil$

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV)²⁰¹⁹

$\lceil 16 \rceil$ 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) DEMO

$\lceil 17 \rceil$ 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) 2018 demo

Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models $\lceil 18 \rceil$

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

$\lceil 20 \rceil$ Self-restraint Object Recognition by Model Based CNN Learning

YIDA WANG AND WEIHONG DENG, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP) 2016

$\lceil 21 \rceil$ Large-Scale 3D Shape Retrieval from ShapeNet Core55

CO-AUTHORED, EUROGRAPHICS (EG) 2016

Face Recognition Using Local PCA Filters

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

Awards_____

Fellows	2017-2021, MLH ^[1] , TUM ^[2] and Bleence ^[3]	Munich, Germany
Contest	2016, Microsoft Open Source Challenge 2 nd prize	Redmond, U.S.A
	2016, BUPT Innovation Awards 1 st prize	Beijing, PRC
	2015, Tianchi Big Data Contest final list	Hangzhou, PRC
	2013, SCILAB Scientific open source Contest 1st prize	Hefei, PRC
	2009, National Math, Chemistry and Physics Contest of Senior High 3_N^{rd} , 1_P^{st} and 2_C^{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	Beijing, PRC

Experience _____

Li Auto Inc. (Chehejia) Shenzhen, China

SENIOR R&D ENGINEER

Jan. 2024 -

• Dynamic streets simulation and diffusion synthesis

Synthesia London, UK

Research Intern Jun. 2022 - Oct. 2022

• High-fidelity Neural Actor

JUNE 1, 2025 YIDA WANG RÉSUMÉ

Facebook Reality Lab Seattle, USA

RESEARCH INTERN

Jun. 2021 - Oct. 2021

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

OpenCV & 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.



ProgrammingC/C++, Python, LaTeX, CUDA, Matlab, Scilab, shell, markdownPattern RecognitionBayesian Inference, Tensor Algebra, Deep Learning, 3D Vision

Languages English (TOEFL: 92 & CET-6: 552), Chinese, Deutsch