



Yida WANG

JOY FUTURE ACADEMY · I10-INDEX 20

Beijing, China

✉ yidawang.cn@gmail.com | 🏠 wangyida.github.io | 📧 wangyida | 📺 yida-wang-910123 | 📧 wangyida123@outlook.com

Experience



Joy Future Academy

DEPARTMENT HEAD - World Map Lab

Beijing

Aug. 2026 - now

- Operating World Map Lab: world models, spatial intelligence and 4D reconstruction



Li Auto Inc.

ALGORITHM SPECIALIST - Spatial Agents Group

Shanghai

Jan. 2024 - Jul. 2026

- Operating Spatial Agents Group: Driving world model; Multi-agent dynamics; 4D reconstruction; Embodied AI



Riemann Labs

STAFF RESEARCH ENGINEER

Shenzhen

Jan. 2023 - Dec. 2023

- Urban region reconstruction with drones



Synthesia

RESEARCH INTERN

London, UK

Jun. 2022 - Oct. 2022

- High-fidelity Neural Actor



Facebook

RESEARCH INTERN

Seattle, USA

Jun. 2021 - Oct. 2021

- Semantic 3D reconstruction for eye tracking



Google

SOFTWARE ENGINEER

Remote

Apr. 2015 - Sep. 2016

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

Education



Technical University of Munich (Technische Universität München)

PH.D. in Computer Science

Jun. 2017 - Jun. 2022



Beijing University of Posts and Telecommunications

M.Sc.ENG. in Electronics and Communication Engineering

Sep. 2014 - Mar. 2017



Beijing University of Posts and Telecommunications

B.Sc. in Communication Engineering

Sep. 2010 - Jul. 2014

Publications

- [1] **Mobile-GS: Real-time Gaussian Splatting for Mobile Devices**
XIAOBAO DU, YIDA WANG, KUN ZHAN, XIN YU, [ICLR](#)²⁰²⁶
- [2] **MVGS: Multi-view Regulated Gaussian Splatting for Novel View Synthesis**
XIAOBAO DU, YIDA WANG, XIN YU, [ECCV](#)²⁰²⁶

- [3] **CRAFT: Counterfactual-to-Interactive Reinforcement Fine-Tuning for Driving Policies**
KEYU CHEN, NANFEI YE, **YIDA WANG**, WENCHAO SUN, DANQI ZHAO, HAO CHENG, SIFA ZHENG, [ARXIV](#)²⁰²⁶
- [4] **StreetForward: Perceiving Dynamic Street with Feedforward Causal Attention**
ZHONGRUI YU, ZHAO WANG, YIJIA XIE, **YIDA WANG**, XUEYANG ZHANG, YIFEI ZHAN, KUN ZHAN, [ECCV](#)²⁰²⁶
- [5] **OccDirector: Language-Guided Behavior and Interaction Generation in 4D Occupancy Space**
ZHUDING LIANG, TIANYI YAN, DUBING CHEN, JIASEN ZHENG, HUAN ZHENG, CHENG-ZHONG XU, **YIDA WANG**, KUN ZHAN, JIANBING SHEN, [ECCV](#)²⁰²⁶
- [6] **InfiniDepth: Arbitrary-Resolution and Fine-Grained Depth Estimation with Neural Implicit Fields**
HAO YU, HAOTONG LIN, JIAWEI WANG, JIAXIN LI, **YIDA WANG**, XUEYANG ZHANG, YUE WANG, XIAOWEI ZHOU, RUIZHEN HU, SIDA PENG, [CVPR](#)²⁰²⁶
- [7] **HiNeuS: High-fidelity Neural Surface Mitigating Low-texture and Reflective Ambiguity**
YIDA WANG, XUEYANG ZHANG, KUN ZHAN, PENG JIA, XIANPENG LANG, [ICCV](#)²⁰²⁵ [HIGHLIGHT]
- [8] **Hierarchy UGP: Hierarchy Unified Gaussian Primitive for Large-Scale Dynamic Scene Reconstruction**
HONGYANG SUN, QINGLIN YANG, JIAWEI WANG, ZHEN XU, CHEN LIU, **YIDA WANG**, KUN ZHAN, HUJUN BAO, XIAOWEI ZHOU, SIDA PENG, [ICCV](#)²⁰²⁵
- [9] **3DRealCar: An In-the-wild RGB-D Car Dataset with 360-degree Views**
XIAOBIAO DU, **YIDA WANG**, HAIYANG SUN, ZHUOJIE WU, HONGWEI SHENG, SHUYUN WANG, JIAYING YING, MING LU, TIANQING ZHU, KUN ZHAN,... [ICCV](#)²⁰²⁵
- [10] **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, [ICRA](#)²⁰²⁶
- [11] **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, [CVPR](#)²⁰²⁵
- [12] **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, [CVPR](#)²⁰²⁵
- [13] **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, [CVPR](#)²⁰²⁵
- [14] **RaNeuS: Ray-adaptive Neural Surface Reconstruction**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [3DV](#)²⁰²⁴ [ORAL]
- [15] **SecNet: Semantic Eye Completion in Implicit Field**
YIDA WANG, YIRU SHEN, DAVID JOSEPH TAN, FEDERICO TOMBARI, SACHIN TALATHI, [NEURIPS W](#)²⁰²²
- [16] **Lidar Upsampling with Sliced Wasserstein Distance**
ARTEM SAVKIN, **YIDA WANG**, SEBASTIAN WIRKERT, NASSIR NAVAB, FEDERICO TOMBARI, [RAL](#)²⁰²²

- [17] **Self-supervised Latent Space Optimization with Nebula Variational Coding**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [T-PAMI](#)²⁰²²
- [18] **Learning Local Displacements for Point Cloud Completion**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [CVPR](#)²⁰²²
- [19] **SoftPool++: An Encoder-Decoder Network for Point Cloud Completion**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [IJCV](#)²⁰²²
- [20] **SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [ECCV](#)²⁰²⁰ [ORAL] [DEMO](#)
- [21] **Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments**
YANYAN LI, NIKOLAS BRASCH, YIDA WANG, NASSIR NAVAB, FEDERICO TOMBARI, [IROS](#)²⁰²⁰
- [22] **ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [ICCV](#)²⁰¹⁹
- [23] **Variational Object-aware 3D Hand Pose from a Single RGB Image**
YIDA WANG*, YAFEI GAO*, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI, [ICRA](#)²⁰¹⁹ [DEMO](#)
- [24] **Adversarial Semantic Scene Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI, [3DV](#)²⁰¹⁸ [DEMO](#)
- [25] **Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models**
YIDA WANG AND WEIHONG DENG, [TIP](#)²⁰¹⁸
- [26] **ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models**
YIDA WANG, CAN CUI AND WEIHONG DENG, [ACCV](#)²⁰¹⁶
- [27] **Self-restraint Object Recognition by Model Based CNN Learning**
YIDA WANG AND WEIHONG DENG, [ICIP](#)²⁰¹⁶
- [28] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**
CO-AUTHORED, [EG](#)²⁰¹⁶

Awards

Fellows	2017-2021, MLH, TUM and Bleence	Munich, Germany
Contest	2016, Microsoft Open Source Challenge , 2 _{nd} Prize	Redmond, U.S.A
	2013, SCILAB Scientific Simulation Contest, 1 _{st} Prize	Hefei
	2009, Senior High Math Contest, National 3 _{rd} Prize	Dalian
Awards	2019, Outstanding Non-CSC PhD Students Abroad Scholarship	Munich, Germany
	2016, National Scholarship	Beijing
	2017, Outstanding Master Graduate of Beijing	Beijing
	2014, Outstanding Bachelor Graduate of Beijing	Beijing
Tracks	2015, Beijing International Triathlon, Bronze Medal in Division 20-24	Beijing
	2016, Capital College Track and Field 4×400m, Gold Medal in Division B	Beijing
	2014, Capital College Track and Field 3000m steeplechase, Bronze Medal in Division B	Beijing