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] **HiNeuS: High-fidelity Neural Surface Mitigating Low-texture and Reflective Ambiguity**
YIDA WANG, Xueyang Zhang, Kun Zhan, Peng Jia, Xianpeng Lang, INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV)[2025] [HIGHLIGHT]

[2] **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, INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV)[2025]

[3] **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,... INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV)[2025]

[4] **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

[5] **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)[2025]

[6] **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)[2025]

[7] **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)[2025]

[8] **RaNeuS: Ray-adaptive Neural Surface Reconstruction**
YIDA WANG, David Joseph Tan, Nassir Navab, Federico Tombari, IEEE CONFERENCE ON 3D VISION (3DV)[2024] [ORAL]

[9] **SecNet: Semantic Eye Completion in Implicit Field**
YIDA WANG, Yiru Shen, David Joseph Tan, Federico Tombari, Sachin Talathi, NEURIPS GAZE MEETS ML (PMLR)[2022]

[10] **Lidar Upsampling with Sliced Wasserstein Distance**
Artem Savkin, YIDA WANG, Sebastian Wirkert, Nassir Navab, Federico Tombari, IEEE ROBOTICS AND AUTOMATION LETTERS (RAL)[2022]

[11] **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]

[12] **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]

[13] **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]

[14] **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

[15] **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]

[16] **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]

[17] **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)[2019] demo

[18] **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

[19] **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]

[20] **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]

[21] **Self-restraint Object Recognition by Model Based CNN Learning**
Yida Wang and Weihong Deng, International Conference on Image Processing (ICIP)[2016]

[22] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**
co-authored, Eurographics (EG)[2016]

Experience

Li Auto Inc.   *Shanghai*
Senior Research and Development Engineer   *Jan. 2024 - now*

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

Synthesia   *London, UK*
Research Intern   *Jun. 2022 - Oct. 2022*

- High-fidelity Neural Actor

Facebook   *Seattle, USA*
Research Intern   *Jun. 2021 - Oct. 2021*

- Semantic 3D reconstruction for eye tracking

Google   *Remote*
Software Engineer   *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

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*