



# 王一达

计算机科学博士 • 计算机视觉和机器学习

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## 教育经历

慕尼黑工业大学 <span>Germany</span>	德国慕尼黑
in 计算机科学博士	2017.8 - 2022.5
北京邮电大学 <span>China</span>	北京
in 电子与通信工程硕士	2014.9 - 2017.4
北京邮电大学 <span>China</span>	北京
in 通信工程学士	2010.9 - 2014.7

## 论文节选

- RaNeuS: Ray-adaptive Neural Surface Reconstruction**  
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IEEE CONFERENCE ON 3D VISION (3DV)<sup>2023</sup> ORAL
- 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>
- 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>
- 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>
- 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>
- 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>
- 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](#)
- 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<sup>2020</sup>
- 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>
- 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, IEEE CONFERENCE ON 3D VISION (3DV)<sup>2018</sup> [DEMO](#)
- 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>

- [13] **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>
- [14] **Self-restraint Object Recognition by Model Based CNN Learning**  
YIDA WANG AND WEIHONG DENG, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP)<sup>2016</sup>
- [15] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**  
CO-AUTHORED, EUROGRAPHICS (EG)<sup>2016</sup>
- [16] **Face Recognition Using Local PCA Filters**  
YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG, CCBR<sup>2015</sup>

## 奖励基金

<b>Fellows</b>	2017-2021, MLH <sup>[1]</sup> , TUM <sup>[2]</sup> , Bleence <sup>[3]</sup>	Munich, Germany
<b>Contest</b>	2016, 微软全球开源挑战赛 2 <sup>nd</sup> 等奖	Redmond, U.S.A
	2016, BUPT Innovation Awards 1 <sup>st</sup> 等奖	Beijing, PRC
	2015, 天池大数据竞赛决赛	Hangzhou, PRC
	2013, SCILAB Scientific open source Contest 1 <sup>st</sup> 等奖	Hefei, PRC
	2009, 全国高中生联合竞赛 3 <sup>rd</sup> , 1 <sup>st</sup> and 2 <sup>nd</sup> 等奖	Dalian, PRC
<b>Awards</b>	2019, 国家优秀博士留学生奖学金	Munich, Germany
	2017, 北京优秀硕士毕业生	Beijing, PRC
	2016, 国家奖学金	Beijing, PRC
	2014, 北京优秀本科毕业生	Beijing, PRC
<b>Others</b>	2016, 首都高校田径运动会 4×400 金牌	Beijing, PRC
	2015, 北京国际铁人三项铜牌	Beijing, PRC
	2014, 首都高校田径运动会 3000 steeplechase 铜牌	Beijing, PRC

## 工作经历

<b>LiAuto</b> 理想汽车	深圳
高级算法工程师	
<ul style="list-style-type: none"> <li>• 大规模城市 3D 建模, 预研模型超过大疆制图的航拍 3D 重建精度, 部署部门航拍和绕拍的业务场景。</li> <li>• 量产车数据采集建模; 实时世界模型研发和端到端部署, 动态资产仿真交互。</li> </ul>	
<b>Synthesia</b>	London, UK
RESEARCH INTERN	Jun. 2022 - Oct. 2022
<ul style="list-style-type: none"> <li>• 高精度虚拟人建模, 支撑 Synthesia 人体动画摄影棚体表建模, 重现发丝级的 3D 重建。</li> </ul>	
<b>Facebook</b> 脸书	Seattle, USA
RESEARCH INTERN	2021.06 - 2021.10
<ul style="list-style-type: none"> <li>• 对 Oculus 虚拟眼镜进行功能拓展, 对扫描到的眼球做附带语义信息的 3D 补全, 方便虚拟眼镜对人眼的实时视线追踪。</li> </ul>	
<b>Microsoft Research</b> 微软研究院	Redmond, USA
PRIZE WINNER	2016.04 - 2016.05
<ul style="list-style-type: none"> <li>• Make multi-thread deep learning for CNTK, awarded as global 2<sup>nd</sup> prize in <a href="#">Microsoft open source challenge</a>.</li> </ul>	
<b>Google</b> 谷歌	北京
SOFTWARE ENGINEER	2015.04 - 2016.09
<ul style="list-style-type: none"> <li>• An initial developer of <a href="#">tiny-dnn</a>, which is the deep learning backend for OpenCV.</li> <li>• Contributed 3 OpenCV modules: <a href="#">3D multi-task learning</a>, <a href="#">quantized deep learning</a> and <a href="#">super resolution</a>.</li> </ul>	

## 专业能力

计算机语言	C/C++, Python, LaTeX, CUDA, Matlab, Scilab, shell, markdown
模式识别	Bayesian Inference, Tensor Algebra, Deep Learning, 3D Vision
语言	English (TOEFL: 92 & CET-6: 552), Chinese, Deutsch

## 其他活动

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### **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