Yida **WANG**

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Bildung

Technische Universität München	*München, Deutschland*
Ph.D in Lehrstuhl für Anwendungen in der Medizin	*Jun. 2017 - 2022*

• Supervisor Dr. Federico Tombari, Mentor Prof. Nassir Navab

Beijing University of Posts and Telecommunications	*Beijing, China*
M.S. in Elektonik-und Kommunikationstechnik	*Sep. 2014 - Mar. 2017*

Beijing University of Posts and Telecommunications	*Beijing, China*
B.S. in Elektonik-und Kommunikationstechnik	*Sep. 2010 - Jul. 2014*

Fähigkeiten

Programming	C/C++, Python, LaTeX, CUDA, Matlab, Scilab, shell, markdown
maschinelles Lernen	Bayesian Inference, Tensor Algebra, Deep Learning, 3D Vision
Sprachen	English (TOEFL: 92 & CET-6: 552), Chinese, Deutsch

Veröffentlichungen

[1] **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]

[2] **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]

[3] **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]

[4] **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

[5] **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[2020]

[6] **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]

[7] **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[2019] demo

[8] **Adversarial Semantic Scene Completion from a Single Depth Image**

Yida Wang, David Joseph Tan, Nassir Navab and Federico Tombari, 3DV[2018] demo

[9] **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]

[10] **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]

[11] **Self-restraint Object Recognition by Model Based CNN Learning**

Yida Wang and Weihong Deng, International Conference on Image Processing (ICIP)[2016]

[12] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**

co-authored, Eurographics (EG)[2016]

[13] **Face Recognition Using Local PCA Filters**

Yida Wang, Shasha Li, Jiani Hu and Weihong Deng, CCBR[2015]

Auszeichnungen

Fellows	2017-2021, MLH[1], TUM[2] and Bleence[3]	*Munich, Germany*
Contest	2016, Microsoft Open Source Challenge 2nd prize	*Redmond, U.S.A*
	2016, BUPT Innovation Awards 1st 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$^{rd}_N$, 1$^{st}_P$ and 2$^{nd}_C$ 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*

Erfahrung

Facebook Reality Lab *Research*   *Seattle, USA*

Research Intern   *Jun. 2021 - Oct. 2021*

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

Microsoft Research   *Redmond, USA*

Prize Winner   *Apr. 2016 - May 2016*

• Make multi-thread deep learning for CNTK, awarded as global 2nd prize in Microsoft open source challenge.

OpenCV – sponsored by 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.

Extra Aktivität

CAMPAR, Technical University of Munich   *Munich, Germany*

Tutor   *Oct. 2017 - Mar. 2018*

• Foundations of Computer Vision
• Recent Trends in 3D Computer Vision and Deep Learning
• Deep Generative Models

School of Information and Communication Engineering, BUPT   *Beijing, PRC*

Class Master   *Sep. 2014 - Mar. 2017*