Yida **WANG**

PH.D STUDENT · COMPUTER VISION AND PATTERN RECOGNITION

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Yida Wang | yidawang.cn@gmail.com

Education

Technische Universität München	*Munich, Germany*
PH.D. *in Computer Science*	*Jun. 2017 -*
Beijing University of Posts and Telecommunications	*Beijing, PRC*
M.SC.ENG. *in Electronics and Communication Engineering - major GPA: 3.42*	*Sep. 2014 - Mar. 2017*
Beijing University of Posts and Telecommunications	*Beijing, PRC*
B.SC. *in Communication Engineering - major GPA: 3.58*	*Sep. 2010 - Jul. 2014*

Publications

Self-supervised Latent Space Optimization with Nebula Variational Coding	*T-PAMI (major revision)*
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI	*2021*
SoftPool++: An Encoder-Decoder Network for Point Cloud Completion	*IJCV (final revision)*
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI	*2021*
SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification	*ECCV (oral)*
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI	*online demo* 2020
Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments	*IROS-RAL*
YANYAN LI, NIKOLAS BRASCH, YIDA WANG, NASSIR NAVAB, FEDERICO TOMBARI	*2020*
ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image	*ICCV*
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI	*online demo* 2019
Variational Object-aware 3D Hand Pose from a Single RGB Image	*ICRA-RAL*
YIDA WANG, YAFEI GAO, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI	*online demo* 2019
Adversarial Semantic Scene Completion from a Single Depth Image	*3DV*
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI	*online demo* 2018
Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models	*TIP*
YIDA WANG AND WEIHONG DENG	*2018*
ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models	*ACCV*
YIDA WANG, CAN CUI AND WEIHONG DENG	*2016*
Self-restraint Object Recognition by Model Based CNN Learning	*ICIP*
YIDA WANG AND WEIHONG DENG	*2016*
CNTK on Mac: 2D Object Restoration and Recognition Based on 3D Model	*Microsoft Faculty Summit 2016*
YIDA WANG	*link* 2016

Large-Scale 3D Shape Retrieval from ShapeNet Core55   *EG 2016 3D workshop*
Co-author   *2016*

Tutorial on 3D object pose estimation & super resolution   *OpenCV 3 and 4*
Yida Wang, Manuele Tamburrano and Stefano Fabri   *link 2015, 2019*

Face Recognition Using Local PCA Filters   *CCBR 2015*
Yida Wang, Shasha Li, Jiani Hu and Weihong Deng   *2015*

Awards

2020	**Award**, MLH Fellowship	*Munich, Germany*
2017-2021	**Award**, TUM Ph.D scholarship	*Munich, Germany*
2018-2019	**Award**, Bleence Research Fellowship	*Munich, Germany*
2016	**Award**, National Scholarship for Master Students (top scholarship in China)	*Beijing, PRC*
2016	**1st prize**, Innovation Awards of BUPT	*Beijing, PRC*
2016	**2nd prize**, Microsoft Open Source Challenge	*Redmond, U.S.A*
2016	**Award**, 1st rank BUPT scholarship	*Beijing, PRC*
2015	**Award**, Excellent Master Student of BUPT	*Beijing, PRC*
2015	**Final**, Tianchi Big Data Contest	*Hangzhou, PRC*
2015	**Award**, 1st rank BUPT scholarship	*Beijing, PRC*
2014	**Award**, Excellent Graduate of Beijing City	*Beijing, PRC*
2013	**1st prize**, SCILAB Scientific open source Contest	*Hefei, PRC*
2009	**3rd prize**, National Mathematics Competition of Senior High School	*Dalian, PRC*
2009	**1st prize**, National Chemistry Competition of Senior High School	*Shenyang, PRC*
2009	**2nd prize**, National Physics Competition of Senior High School	*Shenyang, PRC*
2016	**Gold medal**, Capital College Track and Field Games 4×400	*Beijing, PRC*
2014	**Bronze medal**, Capital College Track and Field Games 3000 steeplechase	*Beijing, PRC*
2015	**Bronze medal**, Beijing International Triathlon	*Beijing, PRC*

Experience

Facebook   *Seattle, USA*
Research Intern   *Jun. 2021 - Oct. 2021*
- Single-view semantic 3D eye reconstruction, Facebook Reality Lab - Eye tracking team

Google & OpenCV   *Beijing, PRC*
Software Engineer   *Apr. 2015 - Sep. 2016*
- Develop tiny-dnn as deep learning backend for OpenCV. Demo: 3D multi-task learning and tiny-dnn on iOS.

Skills

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

Extra Activity

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