Yida **WANG**

Ph.D student · Computer Vision and Machine Learning

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Yida Wang | Yida Wang

Education

Technische Universität München   *Munich, Germany*

Ph.D in Computer Aided Medical Image Processing and Augmented Reality   *Jun. 2017*

- Mentor Dr. Federico Tombari, Advisor Prof. Nassir Navab

Beijing University of Posts and Telecommunications   *Beijing, PRC*

M.S. in Pattern Recognition and Intelligent System   *Sep. 2014 - Mar. 2017*

- Ranking **1st** among 760 students in 2016, average score: 83.04(GPA: 3.32), major score: 85.38(GPA: 3.42)

Beijing University of Posts and Telecommunications   *Beijing, PRC*

B.S. in Information and Communication Engineering   *Sep. 2010 - Jul. 2014*

- Ranking **top 20%** among 800 students in 2014, average score: 87.95(GPA: 3.52), major score: 89.5(GPA: 3.58)

Publications

Adversarial Semantic Scene Completion from a Single Depth Image   *IEEE International Conference on 3D Vision*

Yida Wang, David Tan, Nassir Navab and Federico Tombari   *2018*

Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models   *IEEE Transactions on Image Processing*

Yida Wang and Weihong Deng   *2018*

- Impact Factor 4.828

ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models   *Asian Conference on Computer Vision*

Yida Wang, Can Cui and Weihong Deng   *2016*

Self-restraint Object Recognition by Model Based CNN Learning   *IEEE International Conference on Image Processing*

Yida Wang and Weihong Deng   *2016*

CNTK on Mac: 2D Object Restoration and Recognition Based on 3D Model   *Microsoft Faculty Summit 2016*

Yida Wang   *2016*

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

Co-author   *2016*

OpenCV API page on 3D object pose estimation based on CNN (online doc for OpenCV)   *OpenCV 3 and 4*

Yida Wang, Manuele Tamburrano and Stefano Fabri   *2015*

Face Recognition Using Local PCA Filters *CCBR 2015*

Yᴵᴅᴀ Wᴀɴɢ, Sʜᴀsʜᴀ Lɪ, Jɪᴀɴɪ Hᴜ and Wᴇɪʜᴏɴɢ Dᴇɴɢ *2015*

Honors & Awards

2017 - 2019	**Award**, TUM-CAMPAR Scholarship for internal Ph.D student	*Munich, Germany*
2018	**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	**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*

Experience

Pattern Recognition & Intelligent System Lab *Beijing, PRC*

Mᴀᴄʜɪɴᴇ Lᴇᴀʀɴɪɴɢ Rᴇsᴇᴀʀᴄʜᴇʀ *Sep. 2014 - Mar. 2017*

- Mentor: Weihong Deng (http://www.pris.net.cn/introduction/teacher/dengweihong). Doing research on face recognition, object recognition, semantic segmentation based on traditional methods and deep learning.

Google Open Source & OpenCV *Beijing, PRC*

Mᴀᴄʜɪɴᴇ Lᴇᴀʀɴɪɴɢ Rᴇsᴇᴀʀᴄʜᴇʀ & Sᴏғᴛᴡᴀʀᴇ Eɴɢɪɴᴇᴇʀ *Apr. 2015 - Sep. 2016*

- Mentor: Stefano Fabri and Manuele Tamburrano. Sponsored by Google Summer of Code 2015 to 2016. Maintaining tiny-dnn project and developing 3D object recognition API. Member of project tiny-dnn with five other researchers.
  Here are online video demos for them with hyperlinks: 3D Object Multi-task Learning and tiny-dnn on iOS

Alibaba *Beijing, PRC*

Sᴏғᴛᴡᴀʀᴇ Eɴɢɪɴᴇᴇʀ *Jun. 2015 - Jul. 2015*

- Competitor in Tianchi Big Data Contest 2015. Predicting customers' shopping intention, ranking the 68th team in over 1500 teams from all over the world.

WINE *Beijing, PRC*

Sᴏғᴛᴡᴀʀᴇ Eɴɢɪɴᴇᴇʀ *May. 2015 - Jun. 2015*

- Character matching, Extracting feature from PCANet to match figures in OPEN SOURCE figures with standard Microsoft figures.

Skills

Programming	Matlab, Scilab, C/C++, Python2/3, LaTeX
Machine Learning	Bayesian Theory, Linear Analysis, Caffe, TensorFlow, OpenCV, tiny-dnn
Languages	English(TOEFL: 92; GRE math: 163; CET-4: 613; CET-6: 552), Chinese, Deutsch

Presentation

Microsoft Falculty Summit 2016 *Redmond, USA*

Pʀᴇsᴇɴᴛᴇʀ ғᴏʀ 3D Mᴏᴅᴇʟ Uᴛɪʟɪᴢᴀᴛɪᴏɴ ғᴏʀ Dᴇᴇᴘ Lᴇᴀʀɴɪɴɢ ᴡɪᴛʜ CNTK *April. 2016*

- For 2nd Prize in Microsoft Open Source Challenge. Having report on Microsoft Faculty Summit 2016. Mainly implementing deep learning application based on models and photos.

International Conference on Image Processing 2016   *Arizona, USA*

PRESENTER FOR SELF-RESTRAINT OBJECT RECOGNITION   *Sep. 2016*

- Oral presentation for new procedure for foreground object reconstruction with deep structure using 3D models.

Extracurricular Activity

BUPT   *Beijing*

COURSE TAKER   *2016*

- Probabilistic Theory and Stochastic Process - score 93
- Pattern Recognition and Machine Learning - score 95
- High Speed Communication System - score 96

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

Track and Field Team of BUPT   *Beijing, PRC*

TEAM MEMBER   *Nov. 2010 - Mar. 2017*

- Gold and Bronze medal in Capital College Track and Field Games
- Bronze medal in Beijing International Triathlon 2015 in 20-24 age group

Class 11 in SICE of BUPT   *Beijing, PRC*

CLASS MASTER   *Sep. 2014 - Mar. 2017*

- Class Master of Class 11 in School of Information and Telecommunication Engineering.

Caffe, OpenCV and tiny-dnn   *Beijing, PRC*

OPEN SOURCE CONTRIBUTOR   *Sep. 2013 - now*

Program Committees

2016-12-12

     to   **Editor**, Editorial Board of Journal of Artificial Intelligence Practice   *Canada*

2021-12-12