

Zhe Wang

CONTACT INFORMATION	3rd year PhD Student Department of Computer Science The University of Arizona	Cell: +1-(520)3699297 E-mail: zhew@email.arizona.edu Web: www.z-wang.com
RESEARCH INTERESTS	Big Data Visualization, Exploratory Data Analysis, Data Visualization Systems	
EDUCATION	The University of Arizona Tucson, AZ, USA	Aug. 2014 to present
	PhD Student, Department of Computer Science	
	<ul style="list-style-type: none"> • Advisor: Dr. Carlos Scheidegger • I also worked with Dr. Richard T. Snodgrass 	
	Chinese Academy of Sciences Beijing, China	Sep. 2011 to June 2014
	M.S., Institute of Computing Technology (ICT)	
	<ul style="list-style-type: none"> • Advisor: Dr. Hong Liu 	
	Northeast Normal University Changchun, China	Sep. 2007 to June 2011
	B.E., College of Software Engineering	
	<ul style="list-style-type: none"> • Major: Software Engineering 	
RESEARCH PROJECTS	Gaussian Cubes (Sep. 2015 to present) <ul style="list-style-type: none"> • Real-Time Modeling for Visual Exploration of Large Multidimensional Datasets 	
	ANTARES (Aug. 2014 to present) <ul style="list-style-type: none"> • The Arizona-NOAO Temporal Analysis and Response to Events System • Architecture Team Member (Aug. 2014 to present) • Visualization Team Member (Aug. 2015 to present) • Chief Programmer (Aug. 2015 to present) 	
	Obstacle Avoidance System for the Blind (June 2012 to May 2014 - M.S. Thesis Project) <ul style="list-style-type: none"> • An electronic travel aid to help the visually impaired walk safely using RGB-D sensors • Primary Researcher & Programmer 	
	3D Scanning and Printing System (June 2013 to July 2013) <ul style="list-style-type: none"> • Reconstruct the 3D model of an object in real time using Kinect and KinFu for 3D printer • Primary Researcher & Programmer Printers 	
	Crowd Density Estimation (Sep. 2011 to June 2012) <ul style="list-style-type: none"> • Propose a novel feature for crowd density estimation: the Local Binary Pattern Co-Occurrence Matrix • Primary Researcher & Programmer 	
	KidSpark (Sep 2009 to Apr. 2010) <ul style="list-style-type: none"> • Use a projector and a infrared pen to turn a plane wall into an interactive white board • Software Team Member 	

PUBLICATIONS	<p>[1] Zhe Wang, Nivan Ferreira, Youhao Wei, Aarthy Bhaskar, Carlos Scheidegger. Gaussian Cubes: Real-Time Modeling for Visual Exploration of Large Multidimensional Datasets. <i>Accepted to IEEE InfoVis 2016, IEEE TVCG, to appear.</i></p> <p>[2] Abhijit Saha, Zhe Wang, Thomas Matheson, et al. "ANTARES: Progress towards building a Broker of time-domain alerts". In: <i>Proc. SPIE 9910, Observatory Operations: Strategies, Processes, and Systems VI, 99100F</i> (July 18, 2016)</p> <p>[3] Zhe Wang, Hong Liu, Xiangdong Wang, and Yueliang Qian. Segment and Label Indoor Scene based on RGB-D for the Visually Impaired. In: <i>International Conference on Multimedia Modeling(MMM)</i>, 2014. (Accepted as oral presentation)</p> <p>[4] Hong Liu, Zhe Wang, Xiangdong Wang, Guoying Zhao, and Yueliang Qian. Adaptive Scene Segmentation and Obstacle Detection for the Blind. <i>Journal of Computer-Aided Design and Computer Graphics(JCAD)</i>, 25(12), 1818-1825, 2013.</p> <p>[5] Zhe Wang, Hong Liu, Yueliang Qian, and Tao Xu. Real-Time Plane Segmentation and Obstacle Detection of 3D Point Clouds for Indoor Scenes. In: <i>The 2nd Workshop on Consumer Depth Cameras for Computer Vision, in conjunction with European Conference on Computer Vision (ECCV)</i>, 2012.</p> <p>[6] Zhe Wang, Hong Liu, Yueliang Qian, and Tao Xu. Crowd Density Estimation Based On Local Binary Pattern Co-Occurrence Matrix. In: <i>the 2nd IEEE International Workshop on Advances in Automated Multimedia Surveillance for Public Safety, in conjunction with IEEE International Conference on Multimedia and Expo (ICME)</i>, 2012.</p> <p>[7] Tao Xu, Hong Liu, Yueliang Qian and Zhe Wang. A Fast and Roust Pedestrian Detection Framework based on Static and Dynamic Information. In: <i>IEEE International Conference on Multimedia and Expo (ICME)</i>. 2012.</p>
WORK EXPERIENCE	<p>Department of Computer Science, The University of Arizona Tucson, AZ, USA</p> <ul style="list-style-type: none"> Research Assistant Aug. 2014 to present <p>Institute of Computing Technology, Chinese Academy of Science Beijing, China</p> <ul style="list-style-type: none"> Research Assistant Sep. 2011 to June 2014 <p>Jingshi Information Technology Co., Ltd. Hangzhou, China</p> <ul style="list-style-type: none"> Co-Founder Apr. 2011 to July 2013 <p>IDEAL Research Institute of Information Technology, Northeast Normal University Changchun, China</p> <ul style="list-style-type: none"> Research Assistant Sep. 2008 to Sep. 2010
AWARDS	<ul style="list-style-type: none"> Dongshi Medal, NENU (top 38 students of the university) (2011) National Second Prize in Microsoft Imagine Cup Software Design (top 3 projects in China) (2010) National Second Prize in Microsoft Imagine Cup Multipoint Education Award (top 2 projects in China) (2009) Presidential Scholarship, NENU (top 1% students) (2008, 2009, 2010, 2011)