



## ***Academic Position***

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Research Scientist (2015 – now)

**Geometry Modeling, 3D Fabrication, Scene Synthesis, and Robotics.**

Interdisciplinary Research Center

Shandong University, China

## ***Education***

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PhD in Computing Science (2010 – 2015)

Simon Fraser University, Canada

Advisors: Hao (Richard) Zhang and Daniel Cohen-Or

Dissertation: *Shape Compaction via Stacking and Folding*

GPA: 4.0/4.3

Master in Computer Science (2008 – 2010)

National University of Defense Technology, China

Promoted to Doctoral Program w/o Master's Degree (an honor for the top 8%)

GPA: 3.8/4.0

BS in Computer Science (2004 – 2008)

National University of Defense Technology, China

GPA: 3.8/4.0

## ***Journal Publications***

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1. Rui Ma\*, Honghua Li\*, Changqing Zou, Zicheng Liao, Xin Tong, and Hao Zhang (\*joint first authors)  
*Action-Driven 3D Indoor Scene Evolution*  
**ACM Transactions on Graphics (SIGGRAPH Asia 2016), 35(6).**
2. Changqing Zou, Tianfan Xue, Xiaojiang Peng, Honghua Li, Baocheng Zhang, Ping Tan, and Jianzhuang Liu  
*An Example-Based Approach to 3D Man-made Object Reconstruction from Line Drawings*  
**Pattern Recognition 2016.**
3. Hao Li, Guowei Wan, Honghua Li, Andrei Sharf, Kai Xu, and Baoquan Chen  
*Mobility Fitting Using RANSAC 4D*  
**Computer Graphics Forum (SGP 2016), 35(5).**
4. Honghua Li\*, Ruizhen Hu\*, Ibraheem Alhashim, and Hao Zhang (\*joint first authors)  
*Foldabilizing Furniture*  
**ACM Transactions on Graphics (SIGGRAPH 2015), 34(6).**
5. Ruizhen Hu, Honghua Li, Hao Zhang, and Daniel Cohen-Or  
*Approximate Pyramidal Shape Decomposition*  
**ACM Transactions on Graphics (SIGGRAPH Asia 2014), 33(6).**

6. Ibraheem Alhashim, Honghua Li, Kai Xu, Junjie Cao, Rui Ma, and Hao Zhang  
*Topology-Varying 3D Shape Creation via Structural Blending*  
**ACM Transactions on Graphics (SIGGRAPH 2014), 33(4).**
7. Honghua Li, Hao Zhang, Yanzhen Wang, Junjie Cao, Ariel Shamir, and Daniel Cohen-Or  
*Curve Style Analysis in a Set of Shapes*  
**Computer Graphics Forum (Eurographics 2014), 32(6).**
8. Honghua Li, Ibraheem Alhashim, Hao Zhang, Ariel Shamir, and Daniel Cohen-Or  
*Stackabilization*  
**ACM Transactions on Graphics (SIGGRAPH Asia 2012), 31(6).**
9. Kai Xu, Honghua Li, Hao Zhang, Daniel Cohen-Or, Yueshan Xiong, and Zhi-Quan Cheng  
*Style-Content Separation by Anisotropic Part Scales*  
**ACM Transactions on Graphics (SIGGRAPH Asia 2010), 29(5).**

## ***Other Refereed Publications***

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10. Honghua Li, and Hao Zhang  
*Shape Compaction*  
Book chapter in *Perspectives in Shape Analysis*, Dagstuhl Seminar, 2015.  
Editors: M. Breu, A. Bruckstein, P. Maragos, and S. Wuhler.
11. Hao Fang, Zhi-Quan Cheng, Hong-Hua Li, Jun Li, Yin chen, and Gang Dang  
*2D Shape Deformation and Registration Using Structural Graph Nodes*  
International Conference on Computer Animation and Social Agents, short paper, 2010.
12. Z.-Q. Cheng, W. Jiang, G. Dang, R. Martin, J. Li, H. Li, Y. Chen, Y. Wang, B. Li, K. Xu, and S. Jin  
*Non-rigid Registration in 3D Implicit Vector Space*  
In Proc. of Shape Modeling International, Aix-en-Provence, France, 2010.
13. Jun Li, Zhiquan Cheng, Honghua Li, and Shiyao Jin  
*An algorithm of Laplacian-based 3D surface registration*  
Journal of System Simulation, Vol. 21 Suppl. 1, pp. 113-117, 2009.
14. Honghua Li, Zhiquan Cheng, Jun Li, and Shiyao Jin  
*Mesh Dense Correspondence Computation based on Harmonic Field*  
Journal of System Simulation, Vol. 21 Suppl. 1, pp. 6-9, 2009.
15. Honghua Li, Zhiquan Cheng, Jun Li, and Shiyao Jin  
*3D Surface Correspondence based on SIFT Features of Depth Image*  
Journal of System Simulation, Vol. 21 Suppl. 1, pp. 15-19, 2009.

## ***Professional Service***

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Program Committee – ICVRV 2017

Reviewer:

SIGGRAPH 2016, SIGGRAPH Asia 2017, Eurographics 2015, 2017,  
Graphics Interface 2014, Graphical Models 2015, Computer & Graphics 2016, ICVRV 2017

## ***Work Experience***

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**Machine Vision and Graphics Scientist**, July. 2017 – now

Rentong Intelligence Inc., Shenzhen, China

Topics: 2D and 3D object recognition and localization for industrial robotics

**3D Modeling Scientist**, July. 2015 – Dec. 2016

Avatar Technology Inc., Changsha, China

Topics: 3D human body model acquisition

**Research Assistant**, Sep. 2012 – Dec. 2012

Simon Fraser University & iWonder Inc., Canada

Topics: Interactive mobile application for 3D shape assembly on iOS

Faculty: Hao (Richard) Zhang

**Teaching Assistant**, Sep. 2010 – Aug. 2014

Simon Fraser University, Canada

Courses: Data Structure, Computer Architecture, Computer Graphics

Faculty: David G. Mitchell, Tony Dixon, Hao Zhang, and Ping Tan

## ***Awards & Honors***

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2014 President's PhD Scholarship, SFU

2014 Travel and Minor Research Award, SFU

2014 Runner-up award, FAS Faculty Heat of 3MT Competition, SFU

2013 Graduate Fellowship, SFU

2012 Travel and Minor Research Award, SFU

2012 Graduate Fellowship, SFU

2011 Graduate Fellowship, SFU

2010 China Scholar Council 4-year PhD Scholarship

2009 Bronze Medal of Graduate English Debating Competition, NUDT

2009 Fund of Innovation(<3%), NUDT

2008 Bronze Medal of Undergraduate Contest in Computer Works, Hunan

2008 Galaxy First-Class Scholarship (<2%), NUDT

2007 Galaxy Second-Class Scholarship (<2%), NUDT

2006 Second Prize of Mathematic Contest in Modeling, Hunan

2005–2009 Outstanding Student, NUDT

## ***Press***

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**Asian Pacific Post, 2015**

*Fold your toaster into a pocket-square*

**SFU News, 2015**

*Computing science grad finds way to create compact furniture*

**3DPrint.com, 2015**

*Chinese researchers aim to fold up your whole room with 3D printed, foldable furniture*

**South China Morning Post, 2015**

*Move over IKEA: Space-saving foldable furniture may be just a mouse click away*

## *References*

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<b>Hao (Richard) Zhang</b>	Simon Fraser University	Canada
<b>Daniel Cohen-Or</b>	Tel Aviv University	Israel
<b>Baoquan Chen</b>	Shandong University	China
<b>Ariel Shamir</b>	Interdisciplinary Center	Israel
<b>Andrei Sharf</b>	Ben-Gurion University	Israel
<b>Karan Singh</b>	University of Toronto	Canada
<b>Ping Tan</b>	Simon Fraser University	Canada
<b>Xin Tong</b>	Microsoft Research Asia	China
<b>Chi-Wing Fu</b>	Chinese University of Hong Kong	Hong Kong