



# Honghua Li

*Curriculum Vitæ*

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<http://honghuali.github.io>

## Academic Position

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Visiting Researcher (2015 –)  
Interdisciplinary Research Center, Shandong University, China

## Education

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Ph.D. 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's Program (2008 – 2010) and B.Sc. (2004 – 2008) in Computer Science  
National University of Defence Technology, China  
Promoted to the Master's Program w/o Entrance Examination (an honor for the top 8%)  
Promoted to the Doctoral Program w/o M.Eng. degree (an honor for the top 8%)  
GPA: 3.78/4.0

## Journal Publications

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1. 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, to appear.**
2. Hao Li, Guowei Wan, Honghua Li, Andrei Sharf, Kai Xu, Baoquan Chen  
*Mobility Fitting Using RANSAC 4D*  
**Computer Graphics Forum (SGP 2016), 35(5).**
3. Honghua Li\*, Ruizhen Hu\*, Ibraheem Alhashim, and Hao Zhang (\*joint first authors)  
*Foldabilizing Furniture*  
**ACM Transactions on Graphics (SIGGRAPH 2015), 34(6).**
4. Ruizhen Hu, Honghua Li, Hao Zhang and Daniel Cohen-Or  
*Approximate Pyramidal Shape Decomposition*  
**ACM Transactions on Graphics (SIGGRAPH Asia 2014), 33(6).**
5. Ibraheem Alhashim, Honghua Li, Kai Xu, Junjie Cao, Rui Ma, Hao Zhang  
*Topology-Varying 3D Shape Creation via Structural Blending*  
**ACM Transactions on Graphics (SIGGRAPH 2014), 33(4).**
6. 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).**
7. Honghua Li, Ibraheem Alhashim, Hao Zhang, Ariel Shamir and Daniel Cohen-Or  
*Stackabilization*  
**ACM Transactions on Graphics (SIGGRAPH Aisa 2012), 31(6).**
8. 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 Aisa 2010), 29(5).**

## Other Refereed Publications

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9. 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.
10. 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.
11. 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.
12. 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. (In Chinese)
13. 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. (In Chinese)
14. 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. (In Chinese)

## Work Experience

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**Research Assistant (Supported by iWonder Inc.),** Sep. 2012 – Dec. 2012

Simon Fraser University, Canada

Topics: Interactive App for 3D shape assembly on iOS

Faculty: Hao(Richard) Zhang

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

Simon Fraser University, Canada

Courses: Data Structure, Intro. to Computer Architecture, Intro. to 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 of 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**, “Fold your toaster into a pocket-square”, 2015.

**SFU News**, “Computing science grad finds way to create compact furniture”, 2015.

**3DPrint.com**, “Chinese researchers aim to fold up your whole room with 3D printed, foldable furniture”, 2015.

**South China Morning Post**, “Move over IKEA: Space-saving foldable furniture may be just a mouse click away”, 2015.

## ***Professional Service***

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*Reviewer*: Graphics Interface 2014, Eurographics 2015, Graphical Models 2015, SIGGRAPH 2016, Computer & Graphics 2016

## ***References***

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**Hao (Richard) Zhang**

**Daniel Cohen-Or**

**Baoquan Chen**

**Ariel Shamir**

**Andrei Sharf**

**Karan Singh**

**Ping Tan**

Simon Fraser University, Canada

Tel Aviv University, Israel

Shandong University, China

Interdisciplinary Center, Israel

Ben-Gurion University, Israel

University of Toronto, Canada

Simon Fraser University, Canada