



Honghua Li

Curriculum Vitæ

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<http://honghuali.github.io>

Academic Position

Visiting Researcher (2015 –)

Interdisciplinary Research Center, Shandong University, China

Education

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

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, to appear.
3. Hao Li, Guowei Wan, Honghua Li, Andrei Sharf, Kai Xu, 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, 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 Aisa 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

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

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

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

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

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

References

Hao (Richard) Zhang

Daniel Cohen-Or

Baoquan Chen

Ariel Shamir

Andrei Sharf

Karan Singh

Ping Tan

Simon Fraser Univesity, Canada

Tel Aviv University, Israel

Shandong University, China

Interdisciplinary Center, Israel

Ben-Gurion University, Israel

University of Toronto, Canada

Simon Fraser Univesity, Canada