

# Curriculum Vitae

## Qixing Huang

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### Education

2006.9 – Phd Student, Stanford University  
2006.1 M.S. Tsinghua University, Beijing, China, Computer Science (with Honors)  
2002.7 B.S. Tsinghua University, Beijing, China, Computer Science

### Academic Experience

2006.9 – Research Assistant, Stanford University  
2006.5 –2006.6 Research Assistant, Technology University of Vienna, Austria  
2005.7 –2005.9 Research Assistant, Technology University of Vienna, Austria

### Industrial Experience

2009.6 –2009.9 Software Engineer, Google Inc., Mountain View, CA.  
2008.6 –2008.9 Research Internship, Adobe Systems, Stanford, CA.

### Awards

2008 Mr. and Mrs. Chin-Nan Chen Stanford Graduate Fellowship  
2007 Max-Planck Institute Research Fellowship  
2007 Microsoft Research Fellowship Finalist  
2004 Lenovo Fellowship

### Research interests

3D Reconstruction, Shape Matching.

### Publications

#### Journal and Conference Papers

- to appear 1. **Q.-X. Huang**, R. M ech, and N. Carr. *Optimizing Structure Preserving Embedded Deformation for Resizing Images and Vector Art*. Computer Graphics Forum, Volume 29, number 7, (Pacific Graphics 2009 Conference Proceedings), to appear.
- published 2. B. Thuswaldner, S. Fl ory, R. Kalasek, M. Hofer, **Q.-X Huang**, Hilke Th ur. *Digital anastylosis of the Octagon in Ephesos*. Journal on Computing and Cultural Heritage (JOCCH), 2009, Volume 2, Issue 1, 1-27.
3. **Q.-X. Huang**, M. Wiche, B. Adams, and L.-J. Guibas. *Shape Decomposition using Modal Analysis*. Computer Graphics Forum, Volume 28, number 2, (Eurographics 2009 Conference Proceedings), 407-416.
4. H. Pottmann, J. Wallner, **Q.-X. Huang**, and Y.-L. Yang. *Integral invariants for robust geometry processing*. Computer Aided Geometric Design, 2009, Vol. 26, Issue 1, 37-60.
5. **Q.-X. Huang**, B. Adams, M. Wiche, and L.-J. Guibas. *Non-Rigid Registration Under Isometric Deformations*. Proc. of Eurographics Symposium on Geometry Processing 2008 (SGP), Comp. Graphics Forum, 27(5), 1449-1457, 2008.

6. **Q.-X. Huang**, B. Adams, and M. Wand. *Bayesian Surface Reconstruction via Iterative Scan Alignment to an Optimized Prototype*. Proc. of Eurographics Symposium on Geometry Processing 2007 (SGP), 213-223, 2007.
7. M. Wand, P. Jenke, **Q.-X. Huang**, M. Bokeloh, L. Guibas, and A. Schilling. *Reconstruction of Deforming Geometry from Time-Varying Point Clouds*. Proc. of Eurographics Symposium on Geometry Processing 2007 (SGP), 49 - 58, 2007.
8. H. Pottmann, **Q.-X. Huang**, Y.-L Yang, S. Hu. *Geometry and Convergence Analysis of Algorithms for Registration of 3D Shapes*. International Journal of Computer Vision 67(3): 277-296 (2006).
9. **Q.-X. Huang**, S. Flöry, N. Gelfand, M. Hofer and H. Pottmann. *Reassembling Fractured Objects by Geometric Matching*. ACM Transaction on Graphics 25(3), 569-578, (2006), Proc. SIGGRAPH 2006.
10. **Q.-X. Huang**, S.-M Hu and R. R. Martin. *Fast degree elevation and knot insertion for B-spline curves*. Computer Aided Geometric Design, 2005, Vol 22, Issue 2, 183-197.
11. Chiew-Lan Tai, S.-M Hu and **Q.-X. Huang**. *Approximate merging of B- Spline curves via knot adjustment and constrained optimization*. Computer Aided Design, 2003, Vol. 35, Issue 10, 893 - 899.

#### Technical Reports

12. **Q.-X. Huang**, Radomir Mech and Nathan Carr. *Structure Preserving Deformation for Images and Vector Arts*. Technical Report, December 2008.
13. **Q.-X. Huang**, H. Pottmann. *Automatic and Robust Multi-view Registration*. Geometry Preprint 152, Vienna University of Technology, December 2005.

#### Conference Posters

14. **Q.-X. Huang**, M. Wand, L.-J Guibas, and H.-P Siedel. *Non-Rigid Matching Using Linear Programming*. Proc. 7th Eurographics Symposium on Geometry Processing, Berlin, Germany, 2009, poster.
15. **Q.-X. Huang**, M. Wiche, B. Adams, and L.-J. Guibas. *Segmentation of Articulated Models from a Single Pose*. Proc. 6th Eurographics Symposium on Geometry Processing, Copenhagen, Denmark, 2008, poster.
16. S. Flory, M. Hofer, Barbara Thuswaldner and **Q.-X. Huang**. *Reassembling Ancient Monuments via Constrained Registration*. SIGGRAPH 2007 poster, San Diego, August 2007.

#### Professional Activity

##### Journal Reviewer:

ACM Transaction on Graphics;  
IEEE Transaction on Pattern Recognition and Machine Intelligence;  
IEEE Transaction on Image Processing;  
Computer Aided Design;  
Computer Graphics Forum;

##### Conference Reviewer:

Siggraph 2007;  
Eurographics Symposium on Geometry Processing 2005,2006,2008;  
Eurographics 2009;  
Pacific Graphics 2002, 2005;

**Teaching activity**

2009 Spring Teaching assistant for Stanford CS164 ;  
2008 Spring Teaching assistant for Stanford CS348A .