

Dr. YOUYI ZHENG

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RESEARCH INTERESTS

- Geometric Modeling Segmentation, Matching, Structure-aware Shape Analysis/Modeling
- Imaging Image-based Reconstruction, Structural Image Analysis, etc.
- Human-Computer Inter- Shape/Image/Video editing
 action

EDUCATION

Ph.D, Computer Science (CGA 10.56/12)	2011
	Hong Kong Univ. of Sci. and Tech.
M.Sc, Mathematics (GPA 3.76/4.0)	2007
	Zhejiang University
B.Sc, Mathematics (GPA 3.74/4.0)	2005
	Zhejiang University

PROFESSIONAL EXPERIENCE

Postdoctoral Research Associate Yale University – New Haven, CT, U.S.A.	Sep 2013 to present
Research Fellow KAUST – Thuwal, Saudi Arabia	Sep 2011 to Sep 2013
Research Scholar University College London – London, U.K.	Mar 2013 to Jun 2013
Student Intern Oregon State University – Corvallis, OR, U.S.A.	Mar 2011 to Aug 2011
Research Associate Hong Kong University of Science and Technology – Hong Kong	Sep 2009 to Aug 2011
Summer Software Intern Autodesk Inc – Shanghai, China	May 2006 to Aug 2006

PUBLICATIONS

- Ergonomic-based Geometry Exploration and Reshaping.
(with J. Dorsey and N. Mitra)
submitted to IEEE Transactions on Visualization and Computer Graphics. 2014.
- Structure Completion of Single View RGBD Images.
(with T. Shao, N. Mitra, et al.)
submitted to SIGGRAPH 2014.
- Recurring Part Arrangements in Shape Collections.
Y. Zheng, D. Cohen-Or, M. Averkiou, and N. Mitra.
Eurographics 2014 (**Best Paper Honorable Mention Award**).
- ShapeSynth: Parameterizing Model Collections for Coupled Shape Exploration and Synthesis.
M. Averkiou, V. Kim, Y. Zheng, and N. Mitra.
Eurographics 2014.
- SmartVariations: Functional Substructures for Part Compatibility.
Y. Zheng, N. Mitra, and D. Cohen-Or.
Eurographics 2013 (**Best Paper Honorable Mention Award**).

- Coupled Structure-from-Motion and 3D Symmetry Detection for Urban Facades.
D. Ceylan, N. Mitra, Y. Zheng and M. Pauly.
ACM Transactions on Graphics TOG 2013.
- Interactive Images: Cuboid-proxies for Smart Image Manipulation.
Y. Zheng, X. Cheng, M.-M. Cheng, K. Zhou, S.-M. Hu, and N. Mitra.
ACM Transactions on Graphics TOG 2012 (SIGGRAPH).
- Pairwise Harmonics for Shape Analysis.
Y. Zheng, C.-L. Tai, Eugene Zhang, and Pengfei Xu.
IEEE Transactions on Visualization and Computer Graphics. 2012.
- Dot Scissor: A Single-Click Interface for Mesh Segmentation.
Y. Zheng, C.-L. Tai, and O. K.-C. Au.
IEEE Transactions on Visualization and Computer Graphics. 2011.
- Mesh Segmentation with Concave-Sensitive Fields.
O. K.-C. Au, Y. Zheng, M. Chen., P. Xu, and C.-L. Tai.
IEEE Transactions on Visualization and Computer Graphics. 2011.
- Bilateral Normal Filtering for Mesh Denoising.
Y. Zheng, H. Fu., O. K.-C. Au, and C.-L. Tai.
IEEE Transactions on Visualization and Computer Graphics. 2011.
- Component-wise Controllers for Structure-Preserving Shape Manipulation.
Y. Zheng, H. Fu., D. Cohen-Or, O. K.-C. Au, and C.-L. Tai.
Eurographics 2011.
- Mesh Decomposition with Cross-Boundary Brushes.
Y. Zheng and C.-L. Tai.
Eurographics 2010.
- Electors Voting for Fast Automatic Shape Correspondence.
O. K.-C. Au, C.-L. Tai, D. Cohen-Or, Y. Zheng, and H. Fu.
Eurographics 2010.

ACADEMIC SERVICES

- Program committee member** 2013 - 2014
- International Conference on Pattern Recognition 2014 – Stockholm, Sweden;
 - Computer & Graphics 2013 – Hong Kong.
- Paper reviewer** 2008-present
- ACM Siggraph, ACM Siggraph Asia, Eurographics, Pacific Graphics, Computer Graphics Forum, IEEE The Visual Computer, ICPR, IEEE TVCG.

ACADEMIC TALKS

- Siggraph 2012** *Los Angeles, CA, U.S.A.*
- *Interactive Images*: Cuboid-proxies for Smart Image Manipulation.
- Eurographics 2011** *Bangor University, Wales, U.K.*
- Component-wise Controllers for Structure-Preserving Shape Manipulation.
- Eurographics 2010** *Linköping University, Norrköping, Sweden*
- Mesh Segmentation with Cross-Boundary Brushes.

AWARDS

Eurographics Best Paper Honorable Mention Award.	2014
Eurographics Best Paper Honorable Mention Award. <i>The European Association for Computer Graphics – Barcelona</i>	2013
Overseas Research Award <i>Hong Kong University of Science and Technology – Hong Kong</i>	2011
Champion of the 1st University Cyber Game, Starcraft <i>Hong Kong University of Science and Technology – Hong Kong</i>	2009
Postgraduate Scholarship <i>Hong Kong University of Science and Technology – Hong Kong</i>	2007-2011
Third Class Scholarship <i>Zhejiang University – Hangzhou, China</i>	2002-2004
Freshman Scholarship (top 10 out of 5000 new students) <i>Zhejiang University – Hangzhou, China</i>	2001
First Prize in National Contest on High School Mathematics <i>Xiangshan High School – Ningbo, China</i>	2000
Second Prize in National Contest on High School Physics <i>Xiangshan High School – Ningbo, China</i>	2000
Silver Medal Prize in National Xiwangbei Contest on Mathematics <i>Xiangshan High School – Ningbo, China</i>	1999

TECHNICAL SKILLS

<u>Skills</u>	<u>Experience</u>	<u>Total Years</u>
C/C++, C#.	PROFICIENT	9+
OpenGL, OpenCV, Latex, Matlab, MFC	PROFICIENT	6+
QT, JAVA, CUDA, HTML, Perl, 3DMax	COMPETENT	2+

LANGUAGES

English	PROFICIENT
Mandarin	NATIVE
Cantonese	COMPETENT

REFERENCES

Julie Dorsey	YALE UNIVERSITY	julie.dorsey@yale.edu
Niloy J. Mitra	UNIVERSITY COLLEGE LONDON	n.mitra@cs.ucl.ac.uk
Chiew-Lan Tai	HONG KONG UNIV. OF SCI. & TECH.	taicl@cse.ust.hk
Daniel-Cohen Or	TEL AVIV UNIVERSITY	dcor@tau.ac.il
Hongbo Fu	CITY UNIVERSITY OF HONG KONG	hongbofu@cityu.edu.hk
Oscar Kin-Chung Au	CITY UNIVERSITY OF HONG KONG	kincau@cityu.edu.hk