

Shi-Sheng Huang

CONTACT INFORMATION

PhD Candidate
Department of Computer Science and Technology,
Tsinghua University, Beijing
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RESEARCH INTERESTS EDUCATION

Shape Analysis, Point Cloud Processing, Image Processing, Computer Vision

Tsinghua University, Beijing, China

Ph.D., Computer Graphics, *Expected: Summer 2015*

- Thesis Topic: *Structural Analysis and Interactive Exploration for 3D Objects*
- Advisors: Shi-Min Hu, Ph.D

Beijing Jiaotong University, Beijing, China

B.S., **School of Science**, Fall 2006 - Summer 2010

- Mayor: Information and Computation
- *Graduated with honor, Ranked Top 1%*

SKILLS

Specialities: Geometry Processing/Image Processing/Point Cloud
Processing/Classification in Computer Graphics.
Programming: C/C++, CUDA, OpenGL, Matlab, JAVA.
Languages: Chinese (Native), English (Full professional proficiency)

RESEARCH EXPERIENCE

Research Assistant Sep 2010 to present
Division of Computer Science and Technology,
Tsinghua University
Supervisor: Shi-Min Hu, Ph.D

Research Assistant Sep 2012 to Feb 2013
Division of Computer Science,
Tel-Aviv University, Israel
Supervisors: Daniel Cohen-Or, Ph.D and Ariel Shamir, Ph.D.

Research Assistant Sept 2011 to Nov 2011
School of Creative Media,
City Univ. of Hong Kong, Hong Kong
Supervisors: Hongbo Fu, Ph.D.

REFEREED JOURNAL PUBLICATIONS

1. Xian-Ying Li, Chao-Hui Shen, **Shi-Sheng Huang**, Tao Ju, and Shi-Min Hu. "Popup: Automatic Paper Architectures from 3D Models." ACM Transactions on Graphics (Proceedings of *SIGGRAPH 2010*), 29(4): article 111.
2. Chao-Hui Shen, **Shi-Sheng Huang**, Hongbo Fu, Shi-Min Hu. "Adaptive Partitioning of Urban Facades." ACM Transactions on Graphics (Proceedings of *SIGGRAPH Asia 2011*), 30(6): Article 184.
3. **Shi-Sheng Huang**, Ariel Shamir, Chao-Hui Shen, Hao Zhang, Alla Sheffer, Shi-Min Hu, and Daniel Cohen-Or. "Qualitative Organization of Collections of Shapes via Quartet Analysis." ACM Transactions on Graphics (Proceedings of *SIGGRAPH 2013*), 32(4): 71:1-71:10 (2013).
4. **Shi-Sheng Huang**, Guo-Xin Zhang, Yu-Kun Lai, Johannes Kopf, Daniel Cohen-Or, and Shi-Min Hu. "Parametric Meta-Filter Modeling from a Single Example Pair." *The Visual Computer* 30(6-8): 673-684 (2014)..

5. **Shi-Sheng Huang**, Hongbo Fu, Ling-Yu Wei, and Shi-Min Hu. “Support Substructures: Support-Induced Part-Level Structural Representation.” Accept with Minor Revision, *IEEE transactions on Visualization and Computer Graphics*.
6. **Shi-Sheng Huang**, Hongbo Fu, and Shi-Min Hu. “Structure Guided Interior Scene Synthesis via Graph Matching.” 2015. Submitted to *CAD/Graphics 2015*.

PAPERS IN PREPARATION

1. **Shi-Sheng Huang**., Jia Deng, and Shi-Min Hua. “3D CNN for Urban Point Cloud Classification.”

TEACHING EXPERIENCE

Teaching Assistant Falls 2013–14
 Introduction to Computer Graphics
 Undergraduate Students
 Instructor: Shi-Min Hu, Ph.D
 Department of Computer Science and Technology,
 Tsinghua University

SERVICE

- PC Member:
- THU-CS PhD Forum 2013, 2014
- Conference Reviewer:
- CVM 2013,2015
 - SPM 2014,2015
 - CGI 2013,2014,2015
 - SGP 2014,2015, EG 2014,2015
 - SIGGRAPH 2014,2015, SIGGRAPH Asia 2014
- Journal Reviewer:
- Computer & Graphics 2013, 2014, 2015
 - the Visual Computer 2014, 2015
 - CAG-D 2014, 2015
 - IEEE TVCG 2014, 2015

PRESENTATIONS

- Computer Graphics:
- SIGGRAPH 2013, Anaheim, CA, USA July 2013
 - CGI 2014, Sydney, Austria June 2014
 - MSRA-Tsinghua PhD Workshop, Beijing, China. Apr 2014
 - Computer Graphics Seminar in Tel-Aviv University, Tel-Aviv, Israel, Oct 2012
- Tsinghua University
- PhD Forum in Tsinghua University May 2012
 - PhD Forum in Tsinghua University May 2013

AWARDS

- First Class Award in Tsinghua University Oct 2013
- Tsinghua-Tecent Outstanding Research Award Oct 2013
- Outstanding Undergraduates in Beijing Oct 2010
- Outstanding Undergraduates in Beijing Jiaotong University Oct 2010
- Outstanding High School Students in Hunan Province, China Oct 2005