

Jinta Zheng

Phone: +86 18428360205

Email: zhengjinta@outlook.com

Address: 1068 Xueyuan Avenue, Shenzhen University Town, Shenzhen, P. R. China

Research Interests: Computer Graphics, Visualization, Machine Learning

Education

Sept.2012-Jul.2016	B.E in Computer Science and Technology, Sichuan University , China Overall GPA(86.88/100) top 5%
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Research Experience

Aug.2015-Present	Research Assistant, Human-Computer Interaction Research Center, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences (SIAT). ♦ Conduct fundamental research on global illumination, volume rendering algorithms and all engineering projects.
Mar.2015-Aug.2015	Intern, Institute of computer graphics and image research, Sichuan University.

Publications

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- ♦ **Jinta Zheng**, Tianjin Zhang, Jing Qin. Local Detail Enhancement for Volume Rendering under Global Illumination. *Pacific Graphics 2016* (**Accepted**).
 - ♦ **Jinta Zheng**, Tianjin Zhang, Jing Qin. Detail-aware volume rendering under global illumination. *Journal of Computational Visual Media 2016* (**Submission**).
 - ♦ Tianjin Zhang, **Jinta Zheng**, Zongrui Yi, Dong Liu, Jing Qin. Realistic Rendering of 3D Fetal Ultrasound via Local Ambient Occlusion. *Journal of Medical Imaging and Health Informatics 2016* (**Accepted**).
 - ♦ Tianjin Zhang, Zongrui Yi, **Jinta Zheng**, DongC. Liu, Wai-Mai Pang, Jing Qin, A clustering-based automatic transfer function design for volume visualization. *Journal of Mathematical Problems in Engineering 2016* (**Accepted**).
 - ♦ Tianjin Zhang, **Jinta Zheng**, Binh P. Nguyen et.al. Realistic Rendering of 3D Fetal Ultrasound Data using Photon Mapping. *Journal of Computers in Biology and Medicine* (**Submission**).

Select Projects

Mar.2016-Jul.2016	Enhancement Volume Rendering (QT, GLSL, CUDA, C++) New methods enhance local details of volume data under global illumination. For more details: Click me! Major works: <ul style="list-style-type: none">♦ Design and implement the algorithms.
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- ◆ Research for related works and write the academic paper.
 - ◆ Communicate with the advisor, co-authors.

Aug.2015-Mar.2016	Intelligent 3D Ultrasound Rendering Platform (QT, GLSL, CUDA, C++) Project granted by Shenzhen-Hong Kong Innovation Circle Funding Program (SGLH20131010151755080). A platform contains an improved Photon Mapping algorithm and Ambient Occlusion algorithm for 3D ultrasound rendering to enhance the depth perception and offer more realistic effect. For more details: Click me! Major works: <ul style="list-style-type: none">◆ Implement the visualization platform◆ Research and improve the algorithms
Mar.2015-Jul.2015	Customer Relationship Management (CRM) System for Railway and Airline Major works: <ul style="list-style-type: none">◆ Design and implement whole system
Apr.2014-Mar.2015	Code Presenter Pro A powerful and light tool, giving stunning code demos in presentations. The App is 1st Place Winner of Apps for Office Challenge in Imagine Cup 2014 World Finals, Seattle and more than 10 thousand people download it. For more details: Click me! Major works: <ul style="list-style-type: none">◆ Team leader, design the project and implement several modules
Jul.2013-Jan.2014	Sentiment Analysis System (MFC, PHP, C++) A system which could analyze the sentiment of a sentence input by the writer. This project won the First Prize in China International Software Design and Application Competition. Major works: <ul style="list-style-type: none">◆ Team leader, design and implement the algorithms
Mar.2013-Jul.2013	A Game based on Eye Movement Recognition (OpenCV, OpenGL ES, Java) Project granted by Students' Innovation and Entrepreneurship Training Program. A Maze Game which user can use eye to control the game. Major works: <ul style="list-style-type: none">◆ Design and implement the algorithms

Awards

2016	Outstanding Graduates of Sichuan Province(3/370); Outstanding Graduates; Outstanding Graduation Project; Outstanding Engineer
2015	The 3rd Scholarship; Outstanding Student
2014	The 1st Scholarship(8/370); Outstanding Class Cadre; Innovative Awards



2013 The 2nd Scholarship; Outstanding Student; Innovative Awards

2014 The 1st Prize in the Microsoft Imagine Cup App for Office Challenge in the Worldwide;



The prize of office in the Microsoft Imagine Cup App for Office Challenge in the China

2014 The 1st Prize China International Software Design and Application Competition, Chengdu, Sichuan



Skills

C/C++, CUDA, JAVA, C#, QT, OpenGL, GLSL