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%

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.

Publication

♦ **Jinta Zheng**, Tianjin Zhang, Jing Qin. Local Detail Enhancement for Volume Rendering under Global Illumination. *Pacific Graphics 2016* (**Accepted**).

♦ 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. 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. *Computers in Biology and Medicine* (**Submitted**).

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:

- ♦ Design and implement the algorithms.
- ♦ 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: ♦ Implement the visualization platform ♦ Research and improve the algorithms
Mar.2015-Jul.2015	Customer Relationship Management (CRM) System for Railway and Airline Major works: ♦ 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 **First Place Winner** of Apps for Office Challenge in **Imagine Cup 2014 World Finals, Seattle** and more than 10 thousands people download it. For more details: Click me! Major works: ♦ 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: ♦ 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: ♦ Design and implement the algorithms

Awards

2016	Outstanding Graduates of Sichuan Province(4/370); 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
- ♦ OpenGL
- ♦ QT
- ♦ C#