

# Jinta Zheng

Email: [zhengjinta@outlook.com](mailto:zhengjinta@outlook.com)

Research Interests: Computer Graphics, Visualization, Machine Learning

## Education

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Sept.2012-Jul.2016      B.E (honor) in Computer Science and Technology, [Sichuan University](#), China

## Research & Professional Experience

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**Jul.2017-Present**      Research Assistant, Center of Smart Health, School of Nursing, Hong Kong Polytechnic University.

**Jul.2016-Jun.2017**      Research Assistant,

**Aug.2015-Jul.2016**      Visiting Student,  
Guangdong Provincial Key Laboratory of Computer Vision and Virtual Reality Technology, 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**      Research Intern, Institute of computer graphics and image research, Sichuan University.

## Publications

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- C1. **Jinta Zheng**, Tianjin Zhang, Jing Qin. Local Detail Enhancement for Volume Rendering under Global Illumination. *The 24rd Pacific Conference on Computer Graphics and Applications (Pacific Graphics) Short paper*, pp. 45-50, 2016.
- J1. Tianjin Zhang, **Jinta Zheng**, Binh P. Nguyen et.al. Realistic Rendering of 3D Fetal Ultrasound Data using Photon Mapping. *Computers in Biology and Medicine* 2016(**Submitted**).
- J2. 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*, Volume 6, Number 7, November 2016, pp. 1776-1781(6).
- J3. 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

## Select Projects

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**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.

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For more details: [Click me!](#)

Major works:

- ◆ Implement the visualization platform
- ◆ Research and improve the algorithms

**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:

- ◆ Team leader, design the project and implement several modules

**More**

Customer Relationship Management (CRM) System, Sentiment Analysis System, A Game based on Eye Movement Recognition ...

## Awards

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**2016 Outstanding Graduates of Sichuan Province(1%);** Outstanding Graduates; Outstanding Graduation Project; Outstanding Engineer



**2015** The 3rd Scholarship; Outstanding Student

**2014 The 1st Scholarship(2%);** 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

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