

HANYU XUE

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EDUCATION

Dartmouth College *Sep 2015 - Jun 2017*
M.S. of Computer Science
East China Normal University *Sep 2010 - Jun 2014*
B.S. of Software Engineering
Major GPA: 3.72/4.00 Rank: 2/228

PROJECTS

Theia Render(Rendering Engine) Aug 2014 - Nov 2014
Developer *University of Southern California, USA*

- Implemented ray tracing part of the engine
- Researched and implemented streaming ray tracing pipeline technology to accelerate the engine

3D Fluid Simulation System Apr 2013 - May 2014
Leader *National Undergraduate Training Programs*

- Researched and implemented fluid reconstruction technology, 3D fluid is constructed from 2D fluid video or image
- Researched and implemented 3D fluid synthesis technology, which recombines reconstructed fluid to enlarge the scene
- Implemented fluid smoothing technology, which makes the scene more realistic

Icare Aided Medical Nursing System (Android Application) Sep 2012 - Sep 2013
Core Developer *Shanghai, China*

- Developed QR code processing module and data transmission module
- Designed system architecture and interface
- The system is under trial in several communities in Shanghai

EXPERIENCE

IOS Developer Sep 2014 - Dec 2014
Dali Lab - Runrite Project *Dartmouth College, NH, USA*

- RunRite Smartsole is a shoe insert with pressure sensors that continuously measure the forces applied to a runners foot. It is extremely useful to runners of all levels by generating pressure maps, gait analysis, and impact attenuation charts.

Research Assistance Aug 2012 - Jun 2014
Digital Entertainment Lab *ECNU, Shanghai, China*

- Research 3D fluid reconstruction technology
- Lead a team to finish a national undergraduate project
- Participate in a research project of image foreground editing technology

HORNORS AND AWARDS

Excellent Graduate of Shanghai (top 5%) *Jun 2014*
National Scholarship(top scholarship for Chinese undergraduates) (top 2%) *Oct 2013*
Top-Grade Scholarship of East China Normal University (top 3%) *Oct 2012*

PUBLICATION

Patent A Technology of Synthesizing 3D Fluid Scene Hongyan Quan, **Hanyu Xue**, Mingqi Yu
Software Copyright Icare Aided Medical Nursing System Ji Cheng, **Hanyu Xue**

COMPUTER SKILLS

Programming Language: C++, Java, OpenGL, OpenCV, Android Development,
Professional Knowledge: Computer Vision, Algorithm, Computer Graphics