



Yuntao Jia

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PERSONAL INFORMATION

First Name: **Yuntao**
Last Name: **Jia**
Gender: Male
Nationality: P. R. China
Date of Birth: January 9, 1982
Current Major: Computer Science & Technology
Proposed Program: Ph. D. in Computer Science

RESEARCH INTEREST

- **Computer Graphics**
- Computer Vision, Human-Computer Interaction

PUBLICATIONS (All available in my homepage)

- **Video completion using tracking and fragment merging.**
Yun-Tao Jia, Shi-Min Hu, Ralph R. Martin,
The Visual Computer, Volume 21, Issue 8 - 10, Sep 2005, Pages 601 – 610
- **Rendering Soft Shadows using Multi-layered Shadow Fins**
Xiao-Hua Cai, Yun-Tao Jia, Xi Wang, Shi-Min Hu and Ralph R. Martin
Accepted by *Computer Graphics Forum*
- **Interactive Graph Cut Colorization**
Yun-Tao Jia, Shi-Min Hu
Accepted by *The Chinese Journal of Computers*

EDUCATION

- **Sep. 2004 - Present, M.E. in Tsinghua University**
GPA Ranking: 16th (top 9%) out of 180 graduates in my department.

Total Courses Taken	25 Credits	GPA: 88.36
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- **Sep. 2000 - Jul. 2004 B.E. in Tsinghua University**
GPA Ranking in junior: 9th (top 5%) out of 180 undergraduates in my department.

Total Courses Taken	198 Credits	GPA: 87.72
Computer Kernel Courses	85 Credits	GPA: 90.27



RESEARCHES

■ May 2005-Now

Topics: **Real-Time Rendering in All Frequency Environments**

Advisor: Prof. Shi-Min Hu

Place: Graphics and Geometric Computing Lab, Tsinghua University

Work: Analyze the representation of all frequency environment lights. Design a real-time rendering algorithm to approximate the shading effects on graphics hardware, which can handle both smooth and glossy objects with various BRDFs.

Status: Paper writing.

■ February 2005-May 2005

Topics: **Holoimage based Geometry Rendering and Processing**

Advisor: Prof. Shi-Min Hu and Prof. David Xianfeng Gu

Place: Graphics and Geometric Computing Lab, Tsinghua University

Work: Investigate, implement and improve a real-time geometry acquisition system called "Holoimage". It is a cooperative project with Stony Brook University.

■ November 2004-February 2005

Topics: **Video completion using tracking and fragment merging**

Advisor: Prof. Shi-Min Hu and Prof. Ralph Martin

Place: Graphics and Geometric Computing Lab, Tsinghua University

Work: Analyze the video editing techniques, like tracking and texture synthesis. Propose a new video completion method with pleasing results and great efficiency.

Status: Accepted by Pacific Graphics 2005, published on The Visual Computer.

■ October 2004-November 2004

Topics: **Interactive Graph Cut Colorization**

Advisor: Prof. Shi-Min Hu

Place: Graphics and Geometric Computing Lab, Tsinghua University

Work: Apply Graph cut method on monochrome image colorization problem.

Status: Accepted by The Chinese Journal of Computers.

■ February 2004-October 2004

Topics: **Rendering Soft Shadows using Multi-layered Shadow Fins**

Advisor: Prof. Shi-Min Hu and Prof. Ralph Martin

Place: Graphics and Geometric Computing Lab, Tsinghua University

Work: Learning shading and GPU programming. Design a real-time soft shadow rendering system with physical accurate penumbra.

Status: Accepted by Computer Graphics Forum.



清华大学
TSINGHUA UNIVERSITY

Applicant's Name: **Yuntao Jia**
Date of Birth: **01/09/1982**
Proposed Program: **Ph.D. in CS, Fall 2006**

HONORS & PRIZES

- Oct. 2005** **2005 Tsinghua Friend --- Toshiba Scholarship by Tsinghua University (special prize)**
- Oct. 2003** **2003 Tsinghua Friend --- Yukang Zhou Scholarship by Tsinghua University (special prize)**
- Oct. 2002** **2002 Tsinghua Friend --- Xi yue yu ying Scholarship by Tsinghua University (second prize)**

PROFICIENCY EXAMINATIONS

- **GRE** **August, 2002**
Verbal: 750 (99%) Quantitative: 800 (97%) Analytical: 800 (98%)
- **TOEFL** **August, 2005**
Total: 623(64/61/62) TWE: 4.0

SKILLS

- **Programming Languages:** C/C++, VC 6.0/7.0, C#, Java, x86 Assembly, HTML, XML, PHP
- **Operating Systems:** Win 9x/NT/XP/2003, Linux, UNIX
- **Developing Tools and Other Tools:** VS.net, Matlab, Photoshop, Premier, 3DMax, Tomcat, Apache Server

ACTIVITIES & PERSONEL INTERESTS

- Sports cadre of Class 4, Grade 2000, Dept. of CS, Tsinghua University
- Soccer, tennis, table tennis, swimming, climbing