

Jiawen Chen

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Experience

Massachusetts Institute of Technology, Cambridge, MA

Computer Science and Artificial Intelligence Laboratory, Graphics Group

Graduate Research Assistant (September 2004 - Present)

Currently doing research on computational photography, GPU design and GPU algorithms.

Previously did research on texture synthesis and GPU load balancing.

Undergraduate Research Assistant (May 2002 - Dec 2002)

Designed and implemented a “Software Flashlight” prototype, providing “X-Ray Vision”, pose-aware mobile tracking, and geographic database population.

Developed visualization system for the Cricket indoor navigation device.

Media Laboratory, Sociable Media Group

Undergraduate Research Assistant (Jan 2002 - May 2002)

Developed novel visual models of social interaction on the USENET.

Apple Computer, Inc., Cupertino, CA

Graphics and Imaging Group

Software Engineering Intern (Summer 2005)

Developed algorithms for tone mapping and matting.

Google, Inc., Mountain View, CA

Google Desktop Team

Software Engineering Intern (Summer 2004)

Improved query system for Google Desktop.

Developed randomized algorithms for stress-test framework.

Microsoft Corp., Redmond, WA

Netgen Group

Software Design Engineer Intern (Summer 2003)

Implemented system for collecting anonymous usage statistics.

Implemented framework for multiplayer game communications using a peer-to-peer network.

National High Magnetic Field Laboratory, Tallahassee, FL

Electron Paramagnetic Resonance Group

Undergraduate Research Assistant (Summer 2001)

Developed *PyGAMMA*, an interactive environment for the GAMMA magnetic resonance simulator.

Education	Massachusetts Institute of Technology , Cambridge, MA PhD. Candidate: Computer Science (Sept 2005 - Present) Advisor: Fredo Durand
	Massachusetts Institute of Technology , Cambridge, MA Master of Engineering: Electrical Engineering and Computer Science (2005) Advisor: Fredo Durand Thesis: Load-balanced Rendering on a General-Purpose Tiled Architecture
	Massachusetts Institute of Technology , Cambridge, MA Bachelor of Science: Electrical Engineering and Computer Science (2004) Bachelor of Science: Physics (2004) Minor: Mathematics
	Stuyvesant High School , Class of 2000, New York, NY
Publications	<i>Texture Transfer Using Geometry Correlation</i> Tom Mertens, Jan Kautz, Jiawen Chen, Philippe Bekaert and Fredo Durand Eurographics Symposium on Rendering 2006
	<i>A Reconfigurable Architecture for Load-Balanced Rendering</i> Jiawen Chen, Michael I. Gordon, William Thies, Matthias Zwicker, Kari Pulli and Fredo Durand ACM SIGGRAPH / Eurographics Graphics Hardware 2005
	<i>Pervasive Pose-Aware Applications and Infrastructure</i> Seth Teller, Jiawen Chen and Hari Balakrishnan IEEE Computer Graphics and Applications, Vol. 23, No. 4. 2003
Fellowships	National Science Foundation Graduate Research Fellowship (2005-2007) NVIDIA Fellowship (2005)
Professional Activities	Reviewer: Eurographics Member: ACM (Student), Eta Kappa Nu, Tau Beta Pi Invited Talks: MIT Advanced Computer Graphics Course (2006)
Service	MIT IS&T Residential Computing Consultant (2003-Present) Sidney-Pacific Graduate Residence: IT Chair (2006) Sidney-Pacific Graduate Residence: Webmaster (2005)
Personal	Citizenship: United States Languages Spoken: English (fluent), Mandarin Chinese (proficient)