Jared Hoberock

Contact Information

jaredhoberock@gmail.com | github.com/jaredhoberock

Professional Interests

Parallel programming, systems programming, functional programming, open source, API design

Education

University of Illinois Urbana-Champaign, Urbana, Illinois
Ph.D., Computer Science, August 2008

University of Missouri-Columbia, Columbia, Missouri
B.S., Computer Engineering, 2002, *Summa Cum Laude*

Professional Experience

NVIDIA Corporation, Santa Clara, California
Senior Research Scientist **October 2008 - Current**
As member of the ISO C++ Standardization Committee:

- Project editor of the Technical Specification for C++ Extensions for Parallelism
- Designed and rallied consensus for a standard parallel algorithms library for C++

As member of the NVIDIA Programming and Systems Research Group:

- Developer of Thrust, an open source library for productive, portable, high performance parallel programming
- Conceived, developed, evangelized, and productized a sophisticated C++ library for parallel computing

As member of the NVIDIA Computational Graphics Research Group:

- Development team member of OptiX, a platform for high performance parallel ray tracing
- Designed and implemented the architecture of Design Garage, a GPU-accelerated photorealistic interactive rendering application

University of Illinois Urbana-Champaign, Urbana, Illinois
Research Assistant **August, 2002 - August, 2008**
Developed novel parallel algorithms for rendering global illumination.

NVIDIA Corporation, Santa Clara, California
Research Intern **May 2007 - August 2007**
Worked with the NVIDIA Research team:

- Investigated unique applications of massively parallel processors to ray tracing
- Researched techniques for eliminating incoherent behavior unique to graphics applications

NVIDIA Corporation, Berkeley, California
Film Team Intern **May 2006 - August 2006**
Worked with the Gelato Final Frame Renderer team:

- Investigated new GPU-assisted production quality rendering techniques
- Developed new GPU-based fast render preview features