

Liming Zhao

Center for Human Modeling and Simulation
Dept of Computer & Information Science
University of Pennsylvania
Philadelphia, PA 19104-6389

Email: liming@seas.upenn.edu
Home: 215-518-3118
Work: 215-573-9463
Web: <http://www.seas.upenn.edu/~liming/>

Education

- Ph.D. student in Computer and Information Science
University of Pennsylvania. GPA = 3.90/4.00
- M.S. in Computer and Information Science, 2005
University of Pennsylvania. GPA = 3.76/4.00
- B.S. in Computer Science and Engineering, 2003
Zhejiang University, China. GPA = 3.8/4.0

Research Interest

- Computer animation, computer graphics and computer vision.

Awards

- SIGGRAPH/Eurographics Symposium on Computer Animation Best Paper Award, 2008
- ACM SIGACCESS Best Technical Paper Award, 2007
- Chu Ke-Chen Scholarship, Zhejiang University, China, 2003 (Highest honor in Zhejiang University)
- Outstanding Undergraduate Thesis Award. Zhejiang University, China, 2003
- First Prize, Math Contest in Modeling, China. 2002

Research Experience

- Graduate research fellow at center for Human Modeling and Simulation. Exploring techniques for modeling realistic human motion and measuring the quality of synthesized motions.
- The Well-Connected Motion Graphs. A novel approach to build motion graphs with good connectivity, quick responsiveness and smooth transitions.
- Research with soVoz Inc. Designed and developed Virtual Locomotion Controller, an immersive user interface/game controller and a hardware platform for virtual training and simulation.
- Untethered Motion Capture Evaluation for Flight line Maintenance. Explored and evaluated the utility of a set of novel motion capture technologies.
- NSF project: American Sign Language Natural Language Generation and Machine Translation. Design and implemented the American Sign Language visualization through motion planning.
- Research with Lockheed Martin Corporation in human modeling test bed. Developed a novel technique to generate real-time collision-free reach planning.
- Designed and implemented several general purpose computation tools on GPU.
- Research in computer vision. Explored techniques for image segmentation using Normalized Cut.
- Real-Time Realistic-Looking 3D Facial Expression Animation, a program of national science foundation for distinguished young scholars in China.

Technical Skills

- Operating system: Windows, Unix, Linux.
- Programming language: C, C++, Java, OpenGL, CG, Matlab and Assembly.
- Software development platform: Maya, Gamebryo and ProScena.

