

Yuting Ye

CONTACT INFORMATION	1 Letterman Drive Letterman Digital Art Center San Francisco, CA 94129	Mobile: (415) 746-2496 E-mail: yue@ilm.com WWW: http://www.cc.gatech.edu/~yuting
CURRENT POSITION	Industrial Light & Magic <i>R&D Engineer II</i> , Supervisor: Zoran Kacic-Alesic <ul style="list-style-type: none">• Maintain in-house software tools and develop new algorithms for artists to create digital contents more intuitively and efficiently.	San Francisco, CA January 2012 - present
EDUCATION	Georgia Institute of Technology Ph.D. in Computer Science (GPA 4.0) <ul style="list-style-type: none">• Dissertation: "Simulation of Characters with Natural Interactions"• Advisor: Dr. C. Karen Liu University of Southern California Ph.D. student in Computer Science (GPA 4.0) <ul style="list-style-type: none">• Advisor: Dr. C. Karen Liu University of Virginia M.CS. in Computer Science (GPA 3.73) <ul style="list-style-type: none">• Master's project: "A Momentum-Based Bipedal Balance Controller"• Advisor: Dr. David C. Brogan Peking University B.S. in Computer Science (GPA 3.66) <ul style="list-style-type: none">• Bachelor thesis: "A 2D Vector Graphics Editing System With Elaborate Rendering"• Advisor: Dr. Guoping Wang	Atlanta, Georgia, USA August 2007 - December 2011 Los Angeles, California, USA August 2006 - May 2007 Charlottesville, Virginia, USA August 2004 - May 2006 Beijing, China September 2000 - June 2004
RESEARCH EXPERIENCES	Georgia Institute of Technology <i>Graduate Research Assistant</i> , Advisor: Dr. C. Karen Liu <ul style="list-style-type: none">• Developed optimal control algorithms for balance control, motion tracking, and motion planning of human locomotion and dexterous hand manipulations.• Developed both linear and nonlinear dimensionality reduction techniques for learning and synthesizing responsive behaviors of human characters in a simulated environment.• Assisted in writing two NIH proposals. USC Information Sciences Institute (ISI) <i>Research Intern</i> , Advisor: Dr. Stacy Marsella <ul style="list-style-type: none">• Integrated physics-based balance and tracking control into a kinematics-based control system. University of Southern California <i>Graduate Research Assistant</i> , Advisor: Dr. C. Karen Liu <ul style="list-style-type: none">• Developed and integrated a numerical optimization framework with physics-based simulation for high-level controls of virtual characters. University of Virginia <i>Graduate Research Assistant</i> , Advisor: Dr. David C. Brogan <ul style="list-style-type: none">• Developed a balance controller for articulated characters through angular momentum regulation.• Developed a hierarchical neural network to simplify a complex dynamic system.	Atlanta, GA August 2007 - December 2011 Marina del Rey, CA May 2007 - August 2007 Los Angeles, CA August 2006 - May 2007 Charlottesville, VA August 2004 - May 2006

HONORS AND AWARDS	Third place in Student Research Competition (SRC), ACM SIGGRAPH	2007
	Mingde Fellowship, Peking University	2000 - 2004
	First class Freshmen Scholarship, Peking University	2000
	Rank first over 180,000 in the College Entrance Exam. Guangdong Province, China	2000
PUBLICATIONS	Y. Ye, C. K. Liu. 2012. “Synthesis of detailed hand manipulations using contact sampling”. <i>To appear in ACM Transactions on Graphics (SIGGRAPH)</i> .	
	Y. Ye, C. K. Liu. 2010. “Optimal feedback control for character animation using an abstract model”. <i>ACM Transactions on Graphics (SIGGRAPH)</i> 29(4) Article 74. doi:10.1145/1778765.1778811	
	Y. Ye, C. K. Liu. 2010. “Synthesis of responsive motion using a dynamic model”. <i>Computer Graphics Forum (Eurographics)</i> 29(2) Pages 555-562. doi:10.1111/j.1467-8659.2009.01625.x	
	S. Jain, Y. Ye, C. K. Liu. 2009. “Optimization-based interactive motion synthesis”. <i>ACM Transactions on Graphics (TOG)</i> 28(1) Article 10. doi:10.1145/1477926.1477936	
	Y. Ye, C. K. Liu. 2008. “Animating responsive characters with dynamic constraints in near-unactuated coordinates”. <i>ACM Transactions on Graphics (SIGGRAPH Asia)</i> 27(5) Article 112. doi:10.1145/1409060.1409065	
	S. Jain, Y. Ye, C. K. Liu. 2007. “Optimization-based interactive motion synthesis for virtual characters”. In <i>ACM SIGGRAPH 2007 sketches</i> Article 39. doi:10.1145/1278780.1278828	
TEACHING EXPERIENCES	Teaching Assistantship	
	<ul style="list-style-type: none"> • CSCI 101 Fundamentals of Computer Science, USC • CS 660 Theory of Computation, UVA • CS 201 Software Development Methods (in Java), UVA 	Fall 2006 - Spring 2007 Spring 2006 Fall 2004 - Spring 2006
SKILLS	Guest Lectures	
	• “Optimal Control”, CS 7496: Character Animation, Georgia Tech.	Fall 2011
	• “Inverse Kinematics”, CS 4496: Character Animation, Georgia Tech.	Spring 2011
	• “3D Rotations”, CS 4496: Character Animation, Georgia Tech.	Fall 2010
	• “Articulated Rigid Body Dynamics”, CS 7496: Character Animation, Georgia Tech.	Fall 2009
	• “Articulated Rigid Body Dynamics”, CS 7496: Character Animation, Georgia Tech.	Spring 2008
	Languages: C/C++, Java, Javascript, L ^A T _E X.	
	Tools: OpenGL, GLUT, Open Dynamic Engine (ODE), Bullet physics engine, Eigen library, Computational Geometry Algorithms Library (CGAL), Fast Light Toolkit (FLTK), Cocoa, MOSEK, SNOPT, gnuplot.	
	Softwares: MATLAB, SVN, Mercurial, Autodesk Maya, Adobe Photoshop, Illustrator, and Premiere, Vicon IQ and Blade.	
	Platforms: Mac OSX, Linux, Windows.	
PROFESSIONAL ACTIVITIES	Reviewer	
	SIGGRAPH Asia 2011, 2010, 2009	
	Motion in Games 2011, 2010	
	Eurographics 2012, 2011, 2010, 2009	
	Computer Graphics International 2010	
	Editor	
	Papers preview video, SIGGRAPH 2008	
	Membership	
	ACM SIGGRAPH student member, since 2006	