

Tungyou Lin

Contact Information	Department of Mathematics University of California at Los Angeles 405 Hilgard Avenue Los Angeles, CA 90095-1555 USA Phone: 1-310-208-4136	tungyoul@math.ucla.edu
Citizenship	U.S. Citizen	
Research Interests	Applied mathematics and scientific computing, image registration, optimization theory, variational methods, particle simulation for plasma physics, modeling of human perception of motions	
Education	<ul style="list-style-type: none">• (expected 2009) Ph.D. in Applied Mathematics, University of California at Los Angeles, Los Angeles, California, USA• June 2006 M.S. in Applied Mathematics, University of California at Los Angeles, Los Angeles, California, USA• June 2003 B.S. in Mathematics, University of California at Irvine, Irvine, California, USA• June 1993 M.A. in Linguistics, University of California at San Diego, La Jolla, California, USA• June 1990 B.A. in Chinese Literature and Linguistics, Tsing Hua University in Taiwan, Hsinchu, Taiwan, ROC	
Projects	<ul style="list-style-type: none">• Particle Simulation of Coulomb Collision• Medical Image Registration• Modeling of Human Perception of Motion	
Conference Participation, Presentation	<ul style="list-style-type: none">• October 2009 Fall Poster Day Presentation, 2009, IPAM, Los Angeles, CA• February 2009 SPIE Medical Imaging Conference 2009, Orlando, FL<ul style="list-style-type: none">- poster presentation• July 2008 SIAM Conference 2008, San Diego, CA<ul style="list-style-type: none">- poster presentation• July 2008 Summer School: Mathematics in Brain Imaging 2008, IPAM, Los Angeles, CA• June 2008 Optimal Transport Culminating Workshop, Lake Arrowhead Conference Center, CA	

- lecture presentation
- **March - June 2008** Optimal Transport Workshops, IPAM, Los Angeles, CA
 - core participant
- **May 2008** IEEE International Symposium on Biomedical Imaging 2008, Paris, France
 - lecture presentation
- **October 2007** Fall Poster Day Presentation, 2007, IPAM, Los Angeles, CA

Fellowships

- **Summer 2006 - Spring 2009** Research Assistant,
Department of Mathematics, University of California at Los Angeles, Los Angeles, California, USA
- **Winter 2008 - Spring 2008** Reader,
Department of Mathematics, University of California at Los Angeles, Los Angeles, California, USA,
 - Calculus of Several Variables, Differential Equations, Linear Algebra
- **Fall 2005, Fall 2006, Winter 2007** Teaching Assistant,
Department of Mathematics, University of California at Los Angeles, Los Angeles, California, USA,
 - Calculus, Probability, Differential Equations
- **Fall 1992 - 1996** Teaching Assistant,
Chinese Studies Program, Department of History, University of California at San Diego, La Jolla, California, USA

Awards

- **July 2008** SIAM Student Travel Award
- **June 2003** Phi Beta Kappa Society Honor Student and Membership

Computer Skills Matlab, C, C++, UNIX shell scripting

Publications

- (1) C. Wang, T. Lin, R. Caffisch, B. Cohen, A. Dimits, *Particle Simulation of Coulomb Collisions: Comparing the Methods of Takizuka-and-Abe and Nanbu*, Journal of Computational Physics, Vol. 227, Issue 9, Pages 4308 - 4329 April 2008
- (2) T. Lin, E. Lee, I. Dinov, C. Le Guyader, P. Thompson, A. Toga, L. Vese, *A Landmark-Based Nonlinear Elasticity Model for Mouse Atlas Registration*, ISBI 2008. 5th IEEE International Symposium on Biomedical Imaging: From Nano to Macro. Pages 788 - 791, 14-17 May 2008
- (3) T. Lin, E. Lee, I. Dinov, C. Le Guyader, P. Thompson, A. Toga, L. Vese, *Gene to Mouse Atlas Registration Using a Landmark-Based Nonlinear Elasticity Smoother*, Medical Imaging 2009: Image Processing, edited by Josien P. W. Pluim, Benoit M. Dawant, Proc. of SPIE Vol. 7259, Pages 72592Q-1 - 7259Q-16, 2009
- (4) T. Lin, C. Le Guyader, I. Dinov, E. Lee, P. Thompson, A. Toga and L. Vese, *A Landmark-Based Image Registration Model Using a Nonlinear Elasticity Smoother for Mapping Mouse Atlas to Gene Expression Data*, UCLA CAM Report 09-51, 2009