LIBIN RONG

CURRICULUM VITAE

CONTACT INFORMATION

Theoretical Biology and Biophysics Group, MS K710
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EDUCATION

Ph.D., Applied Mathematics, Purdue University, West Lafayette, Indiana, May 2007
Advisor: Prof. Zhilan Feng
Thesis: Mathematical modeling of HIV-1 dynamics and drug therapy
Visiting Student (spring 2006) and Staff Research Assistant (summer 2006), Theoretical Biology and Biophysics, Los Alamos National Laboratory, Advisor: Dr. Alan Perelson
M.S., Applied Mathematics, Fudan University, Shanghai, China, June 2003
B.S., Mathematics, Fudan University, Shanghai, China, June 2000

EMPLOYMENT

Postdoctoral Research Associate, Theoretical Biology and Biophysics, MS K710, Los Alamos National Laboratory, Los Alamos, NM 87545. June 2007 to present
Advisor: Dr. Alan Perelson

RESEARCH INTERESTS

Mathematical biology, specifically virus dynamics, theoretical immunology & epidemiology; Differential equations and dynamical systems

TEACHING EXPERIENCE

Course instructor, Introduction to Analysis, Purdue University, Fall 2006
Course instructor, Algebra and Trigonometry, Purdue University, Fall 2005
Recitation instructor, Multivariate Calculus, Purdue University, Spring 2005
Recitation instructor, Linear Algebra and Differential Equations, Purdue University, Fall 2004

PROFESSIONAL SERVICE

Journal Editorship

Associate Editor, Journal of Neural Computing Systems, 2007 to present

Journal Referee

Bulletin of Mathematical Biology; Mathematical Biosciences; Journal of Theoretical Biology; PLoS ONE; Mathematical Medicine & Biology; Theoretical Population Biology; Journal of Biological Systems; Mathematical Biosciences and Engineering; Applied Mathematical Modeling; Communications in Nonlinear Science and Numerical Simulation; International Journal of Systems

Science; International Journal of Neural Systems; IEEE Transactions on Neural Networks; IEEE Transactions on Circuits and Systems I-Regular Papers; IEEE Transactions on Circuits and Systems II-Express Briefs; IEEE Transactions on Systems, Man and Cybernetics, Part B; Journal of the Franklin Institute; IEE Proc. Control Theory & Applications; International Journal of Circuit Theory and Application; Asian Journal of Control; Neural Networks; Neural Processing Letters; Neurocomputing; The 13th International Conference on Neural Information Processing (ICONIP 2006); The Fourth International Symposium on Neural Networks (ISNN 2007); IEEE International Symposium on Circuits and Systems (ISCAS 2008).

Contribute to Reviewing for Journals

Nature Medicine; SIAM J. Applied Mathematics; PLoS Computational Biology; Hepatology; J. Infectious Diseases; J. Acquired Immune Deficiency Syndromes.

CONFERENCES

Invited talk, Differential equations and applications in ecology and epidemiology, West Lafayette, Indiana, December 2008

Invited seminar talk, Department of Mathematics, Purdue University, West Lafayette, Indiana, November 2008

Invited talk, SIAM conference on the life sciences, Montreal, Quebec, Canada, August 2008

Invited talk (travel award), 7^{th} AIMS international conference on dynamic systems, differential equations and applications, Arlington, Texas, May 2008

A two-day bio-security science workshop, Los Alamos National Laboratory, December 2007

Invited talk, SMB annual meeting (Joint SMB-SIAM conference on the life sciences), North Carolina State University, Raleigh, North Carolina, July 2006

Poster (travel award), The workshop on modeling the rapid evolution of infectious diseases: epidemiology and treatment strategies, University of Western Ontario, London, Ontario, Canada, May 2005

AWARDS AND PROFESSIONAL AFFILIATIONS

Lynn Fellowship, Purdue University, 2003 - 2004
American Mathematical Society (AMS), 2003 - present
Society for Industrial and Applied Mathematics (SIAM), 2003 - present
Society for Mathematical Biology (SMB), 2005 - present