

CHE TAN D. PAHLAJANI

Department of Mathematics
University of California, Santa Barbara
Email: chetan@math.ucsb.edu
Web page: <http://math.ucsb.edu/~chetan>

Education

- *Ph.D. in Mathematics*, University of Illinois at Urbana-Champaign, October 2007.
Thesis Advisor: Richard B. Sowers
Thesis Title: *Stochastic averaging correctors for a noisy Hamiltonian system with discontinuous statistics*
- *M.S. in Mathematics*, University of Illinois at Urbana-Champaign, May 2003.
- *B.S.E. in Engineering Physics*, University of Michigan at Ann Arbor, August 1999.

Research Interests Probability theory and stochastic processes, systems biology, dynamical systems.

Academic and Work Experience

- *Visiting Assistant Professor*, Department of Mathematics, UCSB, July 2007 - present.
- *Research Assistant*, Department of Mathematics, UIUC, August 2001 - May 2002, August 2002 - December 2002, August 2004 - May 2005.
- *Teaching Assistant*, Department of Mathematics, UIUC, August 1999 - May 2007.

Publications

- (1) *Stochastic reduction method for biological chemical kinetics using time-scale separation*, with Mustafa Khammash and Paul J. Atzberger, in preparation.
- (2) *Stochastic averaging correctors for a noisy Hamiltonian system with discontinuous statistics*, in preparation.
- (3) *Averaging of fluctuations in a multiscale gene transcription network*, in preparation.

Presentations

- *Averaging for a multiscale stochastic model of gene expression*, (poster)
SAMSI Opening Workshop on Stochastic Dynamics, August 30 - September 2, 2009.
- *Averaging in a stochastic model of gene expression*, (short presentation)
Probability at Warwick Young Researchers Workshop, University of Warwick, July 20 - 24, 2009.
- *Probability in gene expression*, (talk)
Undergraduate Mathematics and Physics Seminar, California State University Channel Islands, April 22, 2009.
- *Stochastic averaging for noisy Hamiltonian systems*, (talk)
Applied Math/PDE seminar, University of California, Santa Barbara, October 2007.

- *The Malliavin Calculus*, (talk)
Graduate Student Summer Seminar in Stochastic Processes, University of Illinois at Urbana-Champaign, July 2001.

Teaching Experience and Awards

- Courses taught at UCSB:
 - Math 34B Calculus for Social and Life Sciences (Fall 2007, Winter 2008)
 - Math 5B Vector Calculus I (Spring 2008)
 - Math 3C Differential Equations and Linear Algebra I (Fall 2008, Winter 2009, Fall 2009)
 - Math 5A Differential Equations and Linear Algebra II (Winter 2009, Spring 2009)
- Recipient of the 2006-2007 College of Liberal Arts and Sciences Award for Excellence in Undergraduate Teaching by a Graduate Student at UIUC.

Conferences and Workshops

- *SAMSI Opening Workshop on Stochastic Dynamics*, SAMSI, August 30 - September 2, 2009.
- *Probability at Warwick Young Researchers Workshop*, University of Warwick, July 20 - 24, 2009.
- *Seminar on Stochastic Processes*, Stanford University, March 26 - 28, 2009.
- *Southern California Probability Symposium*, University of California Los Angeles, December 6, 2008.
- *Southern California Probability Symposium*, University of California Irvine, December 1, 2007.
- *Seminar on Stochastic Processes*, University of British Columbia, Vancouver, BC, May 2004.
- *Probability and Partial Differential Equations in Modern Applied Mathematics*, Institute for Mathematics and its Applications, Minneapolis, MN, July 2003.
- *Asymptotic Problems in Stochastic Processes and PDE's*, University of Maryland at College Park, College Park, MD, May 2003.
- *Seminar on Stochastic Processes*, University of Washington, Seattle, WA, March 2003.
- *Seminar on Stochastic Processes*, Princeton University, Princeton, NJ, March 2002.
- *Midwest Probability Colloquium*, Northwestern University, Evanston, IL, October 2000, 2002, 2003, 2004, 2005, 2006.
- *Midwest Probability Colloquium*, University of Chicago, Chicago, IL, October 2001.

Professional Memberships

- American Mathematical Society