

# Curriculum Vitæ

## **Anish Sarkar**

Indian Statistical Institute

Delhi centre

7 S. J. S. Sansanwal Marg

New Delhi – 110016

e-mail:anish@isid.ac.in

Date of birth : 25th October, 1967

## **EDUCATIONAL QUALIFICATION**

- 1) Ph.D, 1996
  - 2) M. Stat, 1990
  - 3) B. Stat, 1988
- (all from the Indian Statistical Institute).

## **PRESENT EMPLOYMENT**

I am an **Associate Professor** in the **Stat-Math Division** in the **Indian Statistical Institute, Delhi Centre** since June 2003. I had joined the Indian Statistical Institute as a *Lecturer* in July 1998 and was promoted to *Assistant Professor* in June 2001.

## **SPECIALIZATION**

Mathematical Theory of percolation and related physical models in statistical physics, Random graphs, Extreme Value Theory.

## **THESIS**

‘Some Problems of Continuum Percolation’, Indian Statistical Institute.  
Supervisor: Professor Rahul Roy.

## **PUBLICATIONS**

- 1) MEESTER, R., ROY, R. and SARKAR, A. (1994) Non-universality and continuity of the critical covered volume fraction in continuum percolation, *Journal of Statistical Physics*, **75**, 123-134.
- 2) MEESTER, R., PENROSE, M.D. and SARKAR, A. (1997) The random connection model in high-dimensions, *Statistics and Probability letters*, **35**, 145-154.
- 3) SARKAR, A. (1997) Continuity and convergence of the percolation function in continuum percolation, *Journal of Applied Probability*, **34**, 363-371.

- 4) SARKAR, A. (1997) Co-existence of the occupied and vacant phases in Boolean models in three or more dimensions, *Advances in Applied Probability* **29**, 878-889.
- 5) SARKAR, A. (1998) The finite clusters in high density Boolean model with balls of varying sizes, *Advances in Applied Probability*, **30**, 929-947.
- 6) ROY, R., SARKAR, A. and White. D. (1998) Backbends in oriented percolation, *Journal of Statistical Physics*, **91**, 889-908.
- 7) SARKAR. A. (2000) Continuum percolation, in *Percolation Theory and Particle systems* ed. Rahul Roy, 25-44.
- 8) SARKAR, A. and SENGUPTA, A. (2001) Finitely polynomially determined Levy Processes, *Electronic journal of probability*, **6**, 1-22.
- 9) ROY, R. and SARKAR, A. (2003) Asymptotics of the Poisson random connection model *Physica A*, **318** 230-342.
- 10) BOSE, A., SARKAR, A. and SENGUPTA, A. (2003) Infinite product of records *Journal of Applied Statistical Science*, **12**, 1-9.
- 11) BOSE, A., GANGOPADHAY, S., SARKAR, A. and SENGUPTA, A. (2003) Convergence of Lower Records and Infinite divisibility *Journal of Applied Probability*, **40**, 865-880.
- 12) BOSE, A., GANGOPADHAY, S., SARKAR, A. and SENGUPTA, A. (2003) Asymptotic Properties of Sums of Upper Records *Extremes*, **6**, 147-164.
- 13) FONTES, L. R., MACHADO, F. and SARKAR, A. (2004)  $p_c(G)$  for the frog model is not a monotonic function of  $G$  *Journal of Applied Probability*, **41**, 292-298.
- 14) GANGOPADHAY, S., ROY, R. and SARKAR, A. (2004) Random Oriented Trees: A Model of Drainage Networks *Annals of Applied Probability*, Vol - **14**, No - 3, 1242-1266.
- 15) ATHREYA, S., ROY, R. and SARKAR, A. (2004) On the coverage of space by random sets *Advances in Applied Probability*, **36**, 1-18.
- 16) SARKAR, A., SEN, KANWAR. and ANURADHA (2004) Waiting time distributions of runs in a  $m$ -dependent Stationary Process *Annals of the Institute of Statistical Mathematics*, Vol - **56**, No - 2, 317-349.
- 17) BOSE, A., GANGOPADHAY, S. and SARKAR, A. (2005) Partial Sum Process for Records *Extremes*, **8**, 43-56.
- 18) KONNO, N., MASUDA, N., ROY, R. and SARKAR, A. (2005) Rigorous results on the threshold network model *Journal of Physics A: Mathematics & General*, **38** , 6277-6291.
- 19) BOSE, A., GANGOPADHAY, S. and SARKAR, A. (2006) Convergence of tail sum for records *Extremes*, **9**, page 151-168.