

## Curriculum Vitae

Name : Shrikrishna G. DANI  
Position : Senior Professor, School of Mathematics,  
Tata Institute of Fundamental Research,  
Homi Bhabha Road, Colaba, Mumbai 400 005, India.  
Education : M.Sc. (1969) and Ph.D. (1975), from Univ. of Bombay.  
Specialisations : Ergodic theory, Dynamics, Lie groups, Diophantine  
approximation, and Probability measures on groups  
(over 80 papers published in international journals).  
Guidance : Nine Ph.D. Theses and one M.Phil. Thesis guided.

### Awards and Distinctions:

Invited speaker, International Congress of Mathematicians, Zurich, 1994.

Shanti Swarup Bhatnagar Prize for Mathematical Sciences (1990).

Fellow of the Indian Academy of Sciences, since 1986, the Indian National Science Academy, since 1990, and the National Academy of Sciences (India), since 1995.

### Publication-related involvements and activities:

Served as Editor of *Proceedings of the Indian Academy of Sciences (Math. Sci.)* (1987 - 1999).

Member, Editorial Board, (currently) of *Journal of Theoretical Probability* (since 1999), *Proceedings of the Indian Academy of Sciences (Math. Sci.)* (since 2000), *Monatshefte für Mathematik* (since 2002), and *Current Science* (since 1998).

Also, served formerly as Member, Editorial Board, of *Ergodic Theory and Dynamical Systems* (1991-95), and *Differential Equations and Dynamical Systems* (1994-99).

### Advisory/Administrative (long term) responsibilities held:

Member, Commission for Development and Exchange, of International Math. Union, since 2003.

Member, Developing Countries Strategy Group, of the International Mathematical Union, from 2004.

Member, National Board for Higher Mathematics, (India), since 1996.

Member, Council of Indian National Science Academy, from January 2006.

Member, National Committee of the International Mathematical Union, during 1994-97.

Member, Council of the Indian Academy of Sciences, 1998-2000.

Dean, Mathematics Faculty, TIFR, September 1994 - September 1997.

Member, Institute's Committee on Administration, October 1997 - March 2001.

### Visiting Appointments held at:

The Institute of Advanced Study, Princeton (1976-77 and 1983-84); Yale University, New Haven (1977-78); University of California, Berkeley (Spring 1982); University of Erlangen-Nürnberg, Erlangen (Autumn 1985); Sonderforschungsbereich - 170, Geometrie und Analysis, Göttingen (1990-91 and also, previously, summer 1986); Mathematical Sciences Research Institute, Berkeley (Sept. 1991 - Feb. 1992); University of Chicago (March - June 1992, and October - November 2000); University of Warwick, Coventry (April - May 1994); Mathematics Institute, University of Rennes, France (July 1997, June - July 2000, September 2001, and May-June 2003); Isaac Newton Institute, University of Cambridge, UK (March - May 2000); Institut de Mathématiques de Luminy, Marseille (16 January - 15 February, 2001 and June 2005); Erwin Schrödinger Institute, Vienna (22 March - 31 August, 2001, and 28 March - 12 July 2002); University of Newcastle, Australia (27 October - 26 November, 2005).

### Other Academic Engagements Abroad:

Visited Max-Planck-Institute, Bonn, Steklov Institute, Moscow, Banach Centre, Warsaw, University of Geneva, Geneva, ICTP, Trieste, Ecole Polytechnique, Paris, on Research and Lecture Projects.

Gave invited lectures at several institutions and in international conferences in USA, Canada, Mexico, UK, France, Germany, Austria, Italy, Switzerland, (former) USSR, Poland, Israel and Australia.

### A selection of 10 papers:

1. Spectrum of an affine transformation, *Duke Math. J.* 44 (1977), 129-155.
2. Invariant measures and minimal sets of horospherical flows, *Invent. Math.* 64 (1981), 357-385.
3. Continuous equivariant images of lattice-actions on boundaries, *Annals of Math.* 119 (1984), 111-119.
4. On orbits of unipotent flows on homogeneous spaces, II, *Ergod. Th. Dynam. Syst.* 6 (1986), 167-182.
5. Bounded orbits of flows on homogeneous spaces, *Comment. Math. Helv.* 61 (1986), 636-660.
6. Embeddability of infinitely divisible distributions on linear Lie groups (jointly with M. McCrudden), *Invent. Math.* 110 (1992), 237-261.
7. Limit distributions of orbits of unipotent flows and values of quadratic forms (jointly with G.A. Margulis), *Advances in Soviet Mathematics* 16 (1993), 91-137.
8. Collapsible probability measures and concentration functions on Lie groups, (jointly with Riddhi Shah), *Math. Proc. Cambridge Phil. Soc.* 122 (1997), 105-113.
9. On ergodic  $\mathbb{Z}^d$ -actions on Lie groups by automorphisms, *Israel J. Math.* 126 (2001), 327-344.
10. Asymptotic behaviour under iterated random linear transformations (jointly with Riddhi Shah), *Math. Res. Lett.* 11 (2004), 467-480.