

**Curriculum vitae for Dr S Jain (Associate Professor)**  
**(B.Sc., A.R.C.S., D.I.C., PhD, FIMA, MInstP, CMath, CPhys)**

Name: Sudhir JAIN

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**Academic Qualifications**

Imperial College of Science, Technology and Medicine (University of London) (1978 – 1981):  
B.Sc. (First Class Honours in Mathematics), A.R.C.S. (First Class Honours Mathematics)

Imperial College of Science, Technology and Medicine (University of London) (1981 – 1984):  
D.I.C., Ph.D. : "Analytic and Computational Studies of Spin Glasses" (supervisor: AP Young)

**Employment History**

2016 – to-date: Postgraduate Programme Director (Aston University);

2011 – 2015 : Associate Dean (Postgraduate Programmes & International Relations) ;

2000 – 2011 : Programme Director for Mathematics;

2000 – to-date : Associate Professor in Applied Mathematics;

1991- 2000 : Reader in Mathematics in the School of Mathematics & Computing  
(University of Derby);

1988-91: Senior research assistant, Department of Chemistry (University of Durham, Grey  
College);

1987-88: Post-doctoral research assistant, Department of Theoretical Chemistry (University of  
Cambridge);

1984-86: Post-doctoral research assistant, Department of Theoretical Physics (University of  
Oxford)

**Professional Qualifications:**

Member of the American Physical Society (1982).

Chartered Physicist and Member of the Institute of Physics (U.K.) (1994)

Chartered Mathematician and Fellow of the Institute of Mathematics and its Applications (1994)

Member of the International Association of Mathematical Physics (1994)

## Research Interests

My long-standing research interests are in computer simulations of complex physical systems with a special emphasis on the (equilibrium and non-equilibrium) dynamics of disordered systems, including magnetically disordered systems such as spin glasses. The work I have published in this area and the papers currently under consideration for publication are all in **high quality international journals**.

My textbook on *Monte Carlo Simulations of Disordered Systems* was published by World Scientific Publishing Co. Pte Ltd., (ISBN: 9971-50-660-2), in 1992; a second edition is under preparation.

The application of ideas and techniques from statistical physics to novel areas such as econophysics, financial mathematics, sociophysics, complex networks and active matter is the underlying theme of my present research interests.

I am (or have been) a member of several high profile international research networks (for example, ONCE and ESF COST Action P10 “Physics of Risk”).

I was on the management committee of the ESF action “Physics of Competition” COST MP0801 and a member of the EPSRC Network Plus “Emergence and Physics far from Equilibrium”. Recently, I have been invited to join the UK Econophysics Network based at Leicester University and am a member of the EPSRC funded NetworkPlus on Emergence and Physics Far From Equilibrium.

In the past I evaluated EU INTAS research proposals as an expert. I’m on the British Council Researcher-Links panel which considers and evaluates research grant applications and also an expert evaluator for EU Horizon 2020 proposals.