

List of Prof. Anil Kumar's Ph. D. Theses from IISc

SN	Name	Year	Title	Current Affiliation
1	M. Albert Thomas	1984	Study of Coupled Spin Systems Using Two-Dimensional NMR Spectroscopy	Professor at UCLA Department of Radiology. USA
2	K. Chandrasekhar	1988	Two Dimensional NMR Spectroscopy in Liquids: Developments in Techniques and Applications to Polypeptides.	Sr. Medical Science Liaison, Astellas Pharma Global Development. Office Address: One Astellas Way, Northbrook, IL 60062, USA.
3	N. Murali	1988	Developments in Two-Dimensional NMR Spectroscopy of Multiple Quantum Coherences of Coupled Spin Spins in Liquids.	Senior NMR Researcher in the Department of Chemistry and Chemical Biology at The State University of New Jersey, Rutgers. USA.
4	V. V. Krishnan	1991	Theoretical and Experimental Investigations of Nuclear Overhauser Effect in Nuclear Magnetic Resonance.	Professor of Physical Chemistry, California State University, Fresno, California & Adjunct Professor of Medical Pathology and Laboratory Medicine, University of California Davis School of Medicine, Davis, California.
5	R. Grace Christy Rani	1994	Study of Coupled Spins by Flip-Angle Dependent one and Two-Dimensional NMR Experiments.	Staff Scientist, St. Jude Children's Research Hospital, Memphis, TN, USA
6	Surajit Bhattacharjya	1997	Structural Characterization of Protein Folding Intermediates.	Associate Professor, School of Biological Sciences, College of Science, NTU, Singapore.
7	P.K. Madhu	1997	Developments of Methodologies in NMR and Applications of NMR to Biomolecules.	Professor in TIFR Mumbai and TIFR Hyderabad.
8	P. Kumar	1997	Cross-correlation studies and relaxation of coupled spins in NMR.	Associate Professor at Houston Methodist and Weill Cornell Medical College, Houston, TX. USA
9	Kavita Dorai	1999	Investigation of coupled spins in NMR: Selective excitation, cross-correlations and Quantum Computing.	Associate Professor, Indian Institute of Science Education and Research, Mohali.
10	G. Karthik	2001	Investigation of Spin-Dynamics and Steady-States Under Coherent and Relaxation Processes in Nuclear Magnetic Resonance Spectroscopy.	Scientist at Philips India, Bangalore

11	T.G. Ajithkumar	2001	Developments in Two-Dimensional NMR Techniques for the Study of Quadrupolar Nuclei in Solids.	Principal Scientist in CSIR-National Chemical Laboratory-Pune
12	T.S. Mahesh	2002	Quantum Information Processing by Nuclear Magnetic Resonance using Transition selective Pulses.	Professor Dept. of Physics, Indian Institute of Science Education and Research, Pune.
13	S. Vivekanandan	2004	Development of Novel NMR Experiments for the study of Oriented Molecules.	NMR specialist, University of Michigan, Ann Arbor, Michigan, USA
14	Ranabir Das	2004	Developments in Quantum Information Processing by Nuclear Magnetic Resonance.	Reader-F at the National Centre for Biological Sciences (NCBS), Bangalore.
15	Rangeet Bhattacharyya	2005	Methodological Developments in NMR using Cross-Correlations and Spatial Encoding.	Associate Professor in Dept of Physical Sciences, IISER Kolkata.
16	Arindam Ghosh	2006	Quantum Information Processing by NMR: Relaxation of Pseudo pure states, Geometric Phases and Algorithms.	Reader-F in School of Chemical Sciences at National Institute for Science Education and Research (NISER), Bhubaneswar, India.
17	T. Gopinath	2007	Quantum Information Processing by NMR: Quantum State Discrimination, Hadamard Spectroscopy. Liouville Space Search, use of Geometric Phase for Gates and Algorithms.	Research Assistant Professor, University of Minnesota. (USA)
18	Avik Mitra	2007	Quantum Algorithms using Nuclear Magnetic Resonance Quantum Information Processor.	Scientist at Philips India, Bangalore,
19	V. S. Manu	2014	Optimization of NMR Experiments using Genetic Algorithm: Applications in Quantum Information Processing, Design of Composite Operators and Quantitative Experiments.	Post Doctoral Associate, University of Minnesota, MN, USA
20	Rama Koteswara Rao Kamineni	2014	Quantum Simulations by NMR: Applications to Spin Chains and Ising Spin Systems.	Post Doctoral Fellow in the Physics Department, University of Dortmund, Germany.

M.S. Theses

- 1. Krishna K. Dey: 2004:** Methodological Developments in NMR.
- 2. Akash Bhattachachrya: 2005:** Implementation of Quantum Computation using NMR.
- 3. Ashok Ajoy: 2009:** Novel algorithmic method to decompose unitary operations in Nuclear Magnetic Resonance.