

CONTACT INFORMATION

Professor
International Centre for Materials Science & School of Advanced Materials
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)
Jakkur P.O., Bangalore 560064, INDIA

Email: rajeshg@jncasr.ac.in
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RESEARCH INTERESTS

Soft and active matter: Colloidal and granular liquids, crystals, and glasses, active matter, shear-induced transitions, soft matter on non-Euclidean surfaces, surface growth, stochastic heat engines.

PROFESSIONAL EXPERIENCE

| | |
|-------------------|--|
| 07/2024 - present | Adjunct Professor, Raman Research Institute, Bangalore, INDIA |
| 06/2021 - present | Professor, International Centre for Materials Science, JNCASR |
| 06/2015 - 06/2021 | Associate Professor, International Centre for Materials Science, JNCASR |
| 06/2009 - 06/2015 | Assistant Professor, International Centre for Materials Science, JNCASR |
| 01/2007 - 05/2009 | Postdoctoral Fellow, Dept. of Physics, Cornell University, Ithaca, NY, USA |
| 06/1999 - 06/2000 | Research Officer, Hindustan-Unilever Research Centre, Bangalore, INDIA |

EDUCATION

| | |
|-------------------|--|
| 06/2000 - 06/2006 | Ph.D. in Physics, Indian Institute of Science, Bangalore, INDIA |
| 06/1997 - 06/1999 | M.Sc. in Physics, Indian Institute of Technology, Chennai, INDIA |

AWARDS AND RECOGNITIONS

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|------|---|
| 2025 | Elected Fellow of the Indian National Science Academy, New Delhi, INDIA |
| 2024 | Elected Fellow of the Indian Academy of Sciences, Bangalore, INDIA |
| 2022 | Featured in the coffee-table book "75 under 50 Scientists Shaping Today's India" by the Department of Science & Technology, Govt. of India. |
| 2020 | Shanti Swarup Bhatnagar Prize for Science and Technology (Physical Sciences) |
| 2016 | SwarnaJayanti Fellowship in Physical Sciences, Department of Science and Technology, Govt. of INDIA |
| 2016 | N S Satyamurthy Young Scientist Award 2014 of the Indian Physics Association |
| 2016 | Sheikh Saqr Career Research Award |
| 2010 | Elected as the Young Associate of the Indian Academy of Sciences, Bangalore, INDIA |

ACADEMIC SERVICE

| | |
|-------------------|---|
| 09/2024 - present | Advisory Board Member, Newton, Cell Press, U.S.A. |
| Starting 01/2025 | Editorial Board Member, Phys. Rev. E, American Physical Society, U.S.A. |

Journal referee: Nature Physics, PNAS, Science Advances, Nature Communications, Physical Review X, Physical Review Letters, ACS Nano, Physical Review E, Journal of Chemical Physics, Physical Chemistry Chemical Physics, Langmuir, Soft Matter, European Physical Journal, Current Science and Scientific Reports

Research grant reviewer: Dept. of Science and Technology, Govt. of India, Netherlands Organization for Scientific Research, Israel Science Foundation,

OTHER SERVICE

Science Funding

- (2022-present) Member, Selection Committee for SERB POWER-Grant in Physics, SERB, Department of Science and Technology, Govt. of India

Institute Service

- (2022 - present) Member Auditorium Committee, JNCASR, Bangalore, INDIA
- (2019 - 2023) Member of the Complab Committee, JNCASR, Bangalore, INDIA
- (2021 - 2022) Member ex-officio Academic Council, JNCASR, Bangalore, INDIA
- (2019 - 2021) Member of the JNC@30 Committee, JNCASR, Bangalore, INDIA
- (2017 - 2022) Member Internal Complaints Committee, JNCASR, Bangalore, INDIA
- (2014 - 2022) Member of the Safety Committee, JNCASR, Bangalore, INDIA
- (2018 - 2021) Member of the Purchase Committee, JNCASR, Bangalore, INDIA

Department Service

- (2019 - 2022) Coordinator Integrated PhD Program in Materials Science, Chemistry and Physics of Materials Unit

RESEARCH FUNDING

| | |
|-------------|--|
| 2022 - 2025 | Imaging Soft Matter at the Nanoscale, Project fund - ₹1.64 Cr (USD ~ 200K), Core research grant - Science and Engineering Research Board, Govt. of INDIA |
| 2017 - 2022 | Glass Transition, Project fund - ₹1.6 Cr (USD ~ 230K), SwarnaJayanti Fellowship, Department of Science and Technology, Govt. of INDIA |
| 2017 - 2020 | Colloidal Epitaxy, Project fund - ₹1.8 Cr (USD ~ 250K), Nanomission Grant Department of Science and Technology, Govt. of INDIA |

SELECTED RESEARCH PUBLICATIONS

- A Shape-driven Reentrant Jamming Transition in Confluent Monolayers of Synthetic Cell-mimics
Pragya Arora, Souvik Sadhukhan, Saroj Kumar Nandi, Dapeng Bi, A K Sood and Rajesh Ganapathy
Nature Comm. 15, 5645 (2024)
- Harnessing Viscoelasticity to Suppress Irreversibility Build-up in a Colloidal Stirling Engine
Niloyendu Roy, A K Sood and [Rajesh Ganapathy](#)
Phys. Rev. Lett 131, 238201 (2023)
- Overcoming Power-efficiency Tradeoff in a Micro Heat Engine by Engineered System-bath Interactions
Sudeesh Krishnamurthy, [Rajesh Ganapathy](#), and A K Sood
Nature Comm. 14, 6842 (2023)
Covered by EurekAlert, Phys.org, The Telegraph, and many other media outlets.
- Intermediate-range Order Governs Dynamics in Dense Colloidal Liquids
Navneet Singh, Zhen Zhang, A K Sood, Walter Kob, and [Rajesh Ganapathy](#)
Proc. Natl. Acad. Sci. U.S.A. 120, e2300923120 (2023)

- Direct Measurements of Surface Strain-mediated Lateral Interactions between Adsorbates in Colloidal Epitaxy
Manodeep Mondal and [Rajesh Ganapathy](#)
Phys. Rev. Lett. 129, 088003 (2022)

Highlighted as Editor's Suggestion and featured in Physics as Synopsis
- Observation of Two-step Melting on a Sphere
Navneet Singh, A K Sood, and [Rajesh Ganapathy](#)
Proc. Natl. Acad. Sci. U.S.A. 119, e2206470119 (2022)
- Motile Topological Defects Hinder Dynamical Arrest in Dense Liquids of Active Ellipsoids
Pragya Arora, A K Sood, and [Rajesh Ganapathy](#)
Phys. Rev. Lett. 128, 178002 (2022)
Highlighted as Editor's Suggestion and featured in Physics as Synopsis
- Tuning the Performance of a Micrometer-sized Stirling Engine by Reservoir Engineering
Niloyendu Roy, Nathan Leroux, A K Sood, and [Rajesh Ganapathy](#)
Nature Comm. 12, 4927 (2021)
- Emergent Stereoselective Interactions and Self-recognition in Polar Chiral Active Ellipsoids
Pragya Arora, A K Sood, and [Rajesh Ganapathy](#)
Science Adv. 7, eabd0331 (2021)
- Structure Determines Where Crystallization Occurs in a Soft Colloidal Glass
Divya Ganapathi, Dibyashree Chakrabarti, A k Sood, and [Rajesh Ganapathy](#)
Nature Phys. 17, 114 (2021)
Covered by numerous media outlets, including Deccan Herald, The Week, and more
- Cooperatively Rearranging Regions Change Shape Near the Mode-coupling Crossover for Colloidal Liquids on a Sphere
Navneet Singh, A K Sood, and [Rajesh Ganapathy](#)
Nature Comm. 11, 4967 (2020)
- Role of Particle Orientational Order During Shear-thickening in Suspensions of Colloidal Rods
Vikram Rathee, Srishti Arora, Dan Blair, Jeff Urbach, A K Sood, and [Rajesh Ganapathy](#)
Phys. Rev. E 101, 040601(R) (2020)
- Cooperative Rearrangements Facilitate the Self-organised Growth of Colloidal Crystal Arrays on Strain-relief Patterns
Manodeep Mondal, Chandan K Mishra, Rajdeep Banerjee, Shobhana Narasimhan, A K Sood, and [Rajesh Ganapathy](#)
Science Adv. 6, Issue 10, eaay8418 (2020)
- Long-wavelength Fluctuations and Anomalous Dynamics in 2-Dimensional Liquids
Yan-Wei Li, Chandan K. Mishra, Zhao-Yan Sun, Kun Zhao, Thomas G. Mason, [Rajesh Ganapathy](#), and Massimo Pica Ciamarra
Proc. Natl. Acad. Sci. U.S.A. 116, 22977 (2019)
Featured in numerous popular science outlets, including EureakAlert, PhysOrg, ScienceDaily, PopularMechanics
- Strength of Mechanical Memories is Maximal at the Yield Point of a Soft Glass
Srimayee Mukherji, Neelima Kandula, A K Sood, and [Rajesh Ganapathy](#)
Phys. Rev. Lett. 122 158001 (2019)
Highlighted as Editor's Suggestion and featured on the cover of Apr 19th, 2019 Issue

- Measurements of Growing Surface Tension of Amorphous-Amorphous Interfaces on Approaching the Colloidal Glass Transition
Divya Ganapathi, Hima K Nagamanasa, A K Sood, and [Rajesh Ganapathy](#)
Nature Commun. 9, 397 (2018)
- Crystallization: Brought to the Surface
[Rajesh Ganapathy](#) and Ajay K Sood
News & Views
Nature Phys. 13, 421 (2017)
- Site-specific Colloidal Crystal Nucleation by Template-enhanced Particle Transport
Chandan K Mishra, A K Sood, and [Rajesh Ganapathy](#)
Proc. Natl. Acad. Sci. U.S.A. 113, 12094 (2016)
**Media Coverage: The Hindu
- A Micrometer-sized Heat Engine Operating Between Bacterial Reservoirs
Sudeesh Krishnamurthy, Subho Ghosh, Dipankar Chatterji, [Rajesh Ganapathy](#), and A K Sood
Nature Phys. 12, 1134 (2016)
**Media Coverage: Nature India, Deccan Herald, The Hindu, Prajavani
- Deconstructing the Structural Glass Transition Through Critical Experiments on Colloids
Shreyas Gokhale, A K Sood, and [Rajesh Ganapathy](#)
Adv. Phys. 65, 363 (2016)
- Localised Excitations and the Morphology of Cooperatively Rearranging Regions in a Colloidal Glass-Forming Liquid
Shreyas Gokhale, [Rajesh Ganapathy](#), Hima K Nagamanasa, and AK Sood
Phys. Rev. Lett. 116, 068305 (2016)
- Shape of Dynamical Heterogeneities and the Fractional Stokes-Einstein and Stokes-Einstein Debye Relation in Quasi Two-Dimensional Suspensions of Colloidal Ellipsoids
Chandan K Mishra and [Rajesh Ganapathy](#)
Phys. Rev. Lett. 114, 198302 (2015)
- Direct Measurements of Growing Amorphous Order and Non-monotonic Dynamic Correlations in a Colloidal Glass Former
Hima K Nagamanasa, Shreyas Gokhale, A. K. Sood, and [Rajesh Ganapathy](#)
Nature Phys. 11, No 5, 365 (2015)
** Featured as the cover page of Nature Physics (May 2015)
** Media coverage: Deccan Herald, Rajyasabha TV
- Dynamical Facilitation Governs Glassy Dynamics in Suspensions of Colloidal Ellipsoids
Chandan K Mishra, Hima K Nagamanasa, [Rajesh Ganapathy](#), A. K. Sood, and Shreyas Gokhale
Proc. Natl. Acad. Sci. U.S.A. 111, 15362, (2014)
** Media coverage: Featured in The Telegraph
- Growing Dynamical Facilitation on Approaching the Random Pinning Colloidal Glass Transition
Shreyas Gokhale, Hima K Nagamanasa, [Rajesh Ganapathy](#), and A. K. Sood
Nature Commun. 5, (2014)
- Experimental Signatures of a Nonequilibrium Phase Transition Governing Yielding of A Soft Glass
Hima K Nagamanasa, Shreyas Gokhale, A. K. Sood, and [Rajesh Ganapathy](#)
Phys. Rev. E 89, 062308 (2014)
- Entropy Driven Crystal Formation on Highly Strained Substrates
John R Savage, Stefan R Hopp, [Rajesh Ganapathy](#), Sharon Gerbode, Andreas Heuer, and Itai Cohen
Proc. Natl. Acad. Sci. U.S.A. 110, 9301, (2013)

- Grain Growth and Grain Boundary Dynamics in Colloidal Crystals
Shreyas Gokhale, Hima K Nagamanasa, [Rajesh Ganapathy](#), and A. K. Sood
***Soft Matter* 9, 6634 (2013)**
** Invited contribution towards Themed Issue on Emerging Investigators in Soft Matter
- Two-step Glass Transition Induced by Attractive Interactions in Quasi-two-dimensional Suspensions of Ellipsoidal Particles
Chandan K Mishra, Amritha Rangarajan, and [Rajesh Ganapathy](#)
***Phys. Rev. Lett.* 110, 188301 (2013)**
- Directional Grain Growth from Anisotropic Roughening of Grain Boundaries in Sheared Colloidal Crystals
Shreyas Gokhale, Hima K Nagamanasa, V Santhosh, A. K. Sood, and [Rajesh Ganapathy](#)
***Proc. Natl. Acad. Sci. U.S.A.* 109, 20314 (2012)**
** Media coverage: Featured in articles in Deccan Herald and The Hindustan Times
- Confined Glassy Dynamics at Grain Boundaries in Colloidal Crystals
Hima K Nagamanasa, Shreyas Gokhale, [Rajesh Ganapathy](#) and A. K. Sood
***Proc. Natl. Acad. Sci. U.S.A.* 108, 11323 (2011)**
- Direct Measurements of Island Growth and Step-edge Barriers in Colloidal Epitaxy
[Rajesh Ganapathy](#), Mark R. Buckley, Sharon Gerbode, and Itai Cohen
***Science* 327, 445 (2010)**
** Media coverage: Featured in NSF News, Phys Org, Cornell Chronicle and numerous other media outlets
- Intermittency Route to Rheochaos in Wormlike Flow-Concentration Coupling
[Rajesh Ganapathy](#) and A. K. Sood
***Phys. Rev. Lett.* 96, 108301 (2006)**

INVITED TALKS & COLLOQUIA

- (2025) Unifying Concepts in Glass Physics, Raman Research Institute, Bangalore, INDIA
- (2025) Physics Seminar, Indian Institute of Science Education and Research-Tirupathi, Tirupathi, INDIA
- (2025) Unit Day - Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2025) International Workshop on Advanced Materials, Ras Al Khaimah, UAE
- (2025) International Conference on Glass - 2025, Kolkata (Plenary talk)
- (2025) Frontier Symposium in Physics, Indian Institute of Science Education and Research, Thiruvananthapuram, Kerala, INDIA
- (2025) Current Trends in Active Matter Physics, CeNSE, Indian Institute of Science, Bangalore, INDIA
- (2024) Seminar, National Centre for Biological Sciences, Bangalore, INDIA
- (2024) Brahmagupta Physics Colloquium, Indian Institute of Technology, Madras, INDIA
- (2023) CompFlu, Indian Institute of Technology, Madras, INDIA
- (2023) Active Matter in Complex Environments, International Centre for Theoretical Studies, Bangalore, INDIA
- (2023) Frontiers in the Physics of Soft and Biological Matter, Raman Research Institute, Bangalore, INDIA
- (2023) International Soft Matter Conference, Osaka, JAPAN (Keynote talk)
- (2023) Soft and Living Matter: From Fundamental Concepts to New Material Design, International Centre for Theoretical Studies, Bangalore, INDIA
- (2023) 9th IDMRCS Meeting, Chiba, JAPAN
- (2023) Statphys28, Tokyo, JAPAN
- (2023) Physics Colloquium, Harish-Chandra Research Institute, Allahabad, INDIA

- (2023) Aditi Simha Memorial Symposium on Soft and Active Matter, Indian Institute of Technology, Madras, INDIA
- (2023) Steady-state Phenomena in Soft Matter, Active and Biological Systems, S N Bose Institute, Kolkata, INDIA
- (2023) Aditi Simha Memorial Session, Department of Physics, Indian Institute of Science, Bangalore, INDIA
- (2023) Frontiers in Non-equilibrium Physics, Institute of Mathematical Sciences, Chennai, INDIA
- (2022) Dept. of Atomic Energy, Solid State Physics Symposium, BITS-Mesra, Ranchi, INDIA
- (2022) Winter School on the Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2022) Experimental Applications of Stochastic Thermodynamics, Indian Institute of Technology, Mumbai, INDIA
- (2022) Current Directions in Statistical Physics, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2022) Distinguished Lecture, Vellore Institute of Technology, Vellore, Tamil Nadu, INDIA
- (2022) Soft and Active Matter Seminar, Indian Institute of Technology - Hyderabad, INDIA
- (2022) Lecture on Trans-disciplinary science by SSB Awardees, Deen Dayal Upadhyay College, Delhi, INDIA
- (2021) SYMPHY 2021, Department of Physics, Indian Institute of Technology, Mumbai, INDIA
- (2021) Winter School on the Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2021) Annual Faculty Meet, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2021) Webinar, Soft Matter Group, Dept. of Physics, Univ. of Gothenburg, SWEDEN
- (2021) SS Bhatnagar Lecture Series, Indian Institute of Technology - Ropar, Punjab, INDIA
- (2020) Monthly Colloquium, International Centre for Theoretical Studies, Bangalore, INDIA
- (2020) Compflu-2020, Indian Institute of Technology, Mumbai, INDIA
- (2020) Weekly seminar, Dept. of Chemical Engineering, Indian Institute of Science, Bangalore, INDIA
- (2020) Institute Colloquium, Tata Institute of Fundamental Research, Mumbai, INDIA
- (2020) SAMat Special Lecture by SSB Prize Awardees, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2019) 15th JNCASR Conference on Chemistry of Materials, Allepey, Kerala, INDIA
- (2019) International Workshop on Glass Physics, Institute for Theoretical Physics-Chinese Academy of Sciences, Beijing, CHINA
- (2019) Discrete Simulations of Fluid Dynamics, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2019) SAMat Meet, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2018) Dept. of Atomic Energy, Solid State Physics Symposium, Hisar, Haryana, INDIA
- (2018) Annual Faculty Meet and In-house, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2018) CNR Rao Oration Award Lecture, JNCASR, Bangalore, INDIA
- (2018) Unifying Concepts in Glass Physics, Univ. of Bristol, Bristol, UK
- (2018) IBS-UNST Soft Matter Conference, IBS Ulsan, South Korea
- (2018) Raman Research Institute, Bangalore, INDIA
- (2017) Compflu-2017, Indian Institute of Technology-Madras, INDIA
- (2017) JNCASR-Cambridge Winter School on Frontiers in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2017) 7th Indo-Israeli Meeting on Frontiers in Condensed Matter Physics, Indian Institute of Science, Bangalore, INDIA

- (2017) Infosys Condensed Matter Physics Seminar, Tata Institute of Fundamental Research, Mumbai, INDIA
- (2017) CeNSE Department Seminar, Indian Institute of Science, Bangalore, INDIA
- (2017) Conference on Correlation and Disorder in Classical and Quantum Systems, International Centre for Theoretical Studies, Bangalore, INDIA
- (2017) Physics Department Seminar, Indian Institute of Science Education and Research Pune, Pune, INDIA
- (2017) Workshop on Glasses and Other Nonequilibrium Systems, Osaka University, Osaka Japan
- (2017) Physics Department Colloquium, Indian Association for the Cultivation of Sciences, Kolkata, INDIA
- (2016) Compflu-2016, International Institute of Information Technology, Hyderabad, INDIA
- (2016) Indo-French Meeting on Advances in Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2016) Annual Meeting of the Indian Physics Association, Bhabha Atomic Research Centre, Mumbai, INDIA
- (2016) Contemporary Issues in Condensed Matter Physics, Dept. of Physics, Indian Institute of Science, Bangalore, INDIA
- (2016) International Workshop on Advanced Materials, RAK-CAM, Ras Al Khaimah, UAE
- (2016) Compflu-2015, Indian Institute of Science Education and Research, Pune, INDIA
- (2015) Growing Length Scale Phenomena in Condensed Matter, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2015) 10th JNCASR Conference on Chemistry of Materials, Allepey, Kerala, INDIA
- (2015) Physics Colloquium, Dept. Of Physics, Indian Institute of Science, Bangalore, INDIA
- (2015) New Colloids, Raman Research Institute, Bangalore, INDIA
- (2015) The Nonlinear Physics of Disordered Systems: From Amorphous Solids to Complex Flows, International Centre for Theoretical Sciences, TIFR, Bangalore, INDIA
- (2014) Compflu, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) 6th Indo-Israeli Meeting on Frontiers in Condensed Matter Physics, Tel Aviv, ISRAEL
- (2014) JNCASR-Cambridge Winter School on Directions in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) Engineering Mechanics Unit Colloquium, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) TIFR-Centre for Interdisciplinary Sciences, Hyderabad, INDIA
- (2013) 8th JNCASR Conference on Chemistry of Materials, Taj Vivanta, Trivandrum, Kerala, INDIA
- (2013) Indo-Israel Conference on Material Science and Nanoscience, Mahatma Gandhi University, Kottayam, Kerala, INDIA
- (2013) Indo-Australia Joint Workshop-II, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Theoretical Sciences Unit Seminar, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Cambridge UK-JNCASR Winter School on Frontiers in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Annual Faculty Meet and In-house, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) J A Krumhansl School and Conference on Unifying Concepts in Materials Science, NCBS, Bangalore, INDIA
- (2011) 56th Solid State Physics Symposium - Department of Atomic Energy, SRM University, Chennai, Tamil Nadu
- (2011) Dynamics of Phase Transitions, JNCASR, Bangalore, INDIA
- (2011) Current Topics in Condensed Matter, IISER Kolkata, Kolkata, INDIA

- (2011) Indian Academy of Sciences 22nd Midyear Meeting, Indian Institute of Science, Bangalore, INDIA
- (2011) US-India-Israel Workshop on Soft & Hybrid Matter, Northwestern University, Chicago, U.S.A.
- (2010) Cambridge UK-JNCASR Winter School on the Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2010) National Chemical Laboratories, Pune, INDIA
- (2010) Indira Gandhi Centre for Atomic Research, Kalpakam, INDIA
- (2010) ICAM-I2CAM Conference, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2009) Department of Chemistry, Indian Institute of Technology Madras, Chennai INDIA
- (2009) Chemistry of Materials conference, Allepey, Kerala, INDIA
- (2009) Raman Research Institute, Bangalore, INDIA
- (2008) International Centre for Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA

INVITED OUTREACH TALKS

- (2021) Delivering talks and writing papers, Karnataka Higher Education Academy Dharwad, Karnataka, INDIA
- (2020) Science Playground-2, Society for Promotion of Science and Technology in India, Haryana, INDIA
- (2020) Exploring Science with SSB Awardees, Popular Science Talk, Council of Scientific and Industrial Research, INDIA
- (2017) Program in Physics for Students, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) Program in Physics for Students, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Program in Physics for Students, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2011) Inspire Fellowship Scholars, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2011) JBNSTS Scholars, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2010) Physics Day, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2010) National Science Day, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA

CURRENT Ph.D. STUDENTS

- Jan 2022 - Present: Kamlesh Mishra
- Aug 2022 - Present: Pritam Kumar
- Aug 2023 - Present: Soumyadeep Das

CURRENT Integrated Ph.D. STUDENTS

- Sept 2020 - Present: Uttam Tiwari

CURRENT M.S. STUDENTS

- Aug 2024 - Present: Suman Maji
- Aug 2024 - Present: Archita Barman
- Aug 2025 - Present: Subham Jana

- Aug 2025 - Present: Atin De

POSTDOCTORAL ASSOCIATES SUPERVISED

- Oct 2021 - Jan 2022: Sudeesh Krishnamurthy

PhD/Int. PhD STUDENTS SUPERVISED

- Aug 2009 - Apr 2015: Dr. Hima Nagamanasa Kandula (*Recipient of the best PhD Thesis Award in Physical Sciences at JNCASR, 2016*)
Presently an Assistant Professor at the University of Massachusetts at Amherst, USA
- Aug 2009 - Oct 2015: Dr. Shreyas Gokhale (*Recipient of the best PhD Thesis Award in Physical Sciences at IISC, 2017*)
Jointly with Prof. Ajay Sood at Indian Institute of Science, Bangalore, INDIA. Presently a Postdoctoral Associate with Prof. Jeff Gore at Massachusetts Institute of Technology, Boston, USA
- Jan 2012 - Jun 2017: Dr. Chandan Mishra (*Recipient of the best PhD Thesis Award in Physical Sciences at JNCASR, 2017*).
Presently an Assistant Professor at the Indian Institute of Technology, Gandhinagar, INDIA
- Aug 2015 - Jul 2022: Dr. Manodeep Mondal
Presently a postdoctoral fellow in Prof. Benjamin Rogers's group at Brandeis University, Boston, USA
- Aug 2014 - Jul 2022: Dr. Divya Ganapathi
Presently at Berkeley, USA
- Jan 2017 - Dec 2022: Dr. Navneet Singh
Presently a postdoctoral fellow in Prof. Itai Cohen's group at Cornell University, NY, USA
- May 2018 - May 2023: Dr. Pragya Arora
Presently a postdoctoral fellow in Prof. Seth Fraden's group at Brandeis University, Boston, USA
- Jun 2016 - Dec 2023: Dr. Niloyendu Roy
Presently, a postdoctoral fellow in Prof. Clemens Bechinger's group at Uni. Of Konstanz

MS/MS ENGG. STUDENTS SUPERVISED

- Jan 2012 - May 2013: Chandan K Mishra (*recipient of the best MS Thesis Award*)
- Aug 2012 - May 2014: Neelima Kandula
- Aug 2015 - May 2017: Srimayee Mukherji
- Jun 2016 - May 2018: Niloyendu Roy
- May 2018 - May 2020: Pragya Arora
- Aug 2018 - Aug 2021: Mohit Chaudhary
- Sept 2020 - May 2022: Uttam Tiwari

PGDMS STUDENTS SUPERVISED

- Aug 2022 - Aug 2023: Parisha

RESEARCH ASSISTANTS SUPERVISED

- Aug 2022 - Sep 2025: Alfred Rosario
- Oct 2009 - Jun 2010: Mamta Raju Jotkar
- Jun 2011 - Jan 2013: Shrishti Arora

ACADEMIC REFERENCES

- Prof. Itai Cohen
Department of Physics
Cornell University
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- Prof. Ajay K. Sood (FRS)
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- Prof. Sriram Ramaswamy (FRS)
Department of Physics
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Bangalore 560012, India
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Email: sriram@physics.iisc.ernet.in