


PERSONAL INFORMATION

Ramgopal Agrawal

 [ORCID 0000-0002-7082-2603](https://orcid.org/0000-0002-7082-2603)

WORK EXPERIENCE

Oct 2024 – Present

Postdoctoral Researcher

Sapienza Università di Roma, Rome (Italy)

Working at physics department of the University of Rome "La Sapienza" under the supervision of Prof. Vincenzo Marinari.

Sep 2022 – Sep 2024

Postdoctoral Researcher

LPTHE, Paris (France)

Worked in a joint research laboratory (LPTHE) of CNRS and Sorbonne Université under the supervision of Prof. Leticia Cugliandolo and Prof. Marco Picco.

Jan 2022 – Aug 2022

Research Assistant

JNU, New Delhi (India)

Worked as research assistant under the supervision of Prof. Sanjay Puri.

EDUCATION AND TRAINING

2015–2022

PhD - Thesis Title: "Kinetics of Complex Spin Systems and Quantum Kicked Rotors"

School of Physical Sciences, Jawaharlal Nehru University, New Delhi, India

Thesis Supervisor: Prof. Sanjay Puri

(Available online at <http://hdl.handle.net/10603/470911> .)

2012–2014

Master of Science in Physics

Dr. Bhimrao Ambedkar University, Agra, India

– Percentage: 73.08 (First Division).

2009–2012

Bachelor of Science

Dr. Bhimrao Ambedkar University, Agra, India

– Subject: Physics, Computer Science, and Mathematics

– Percentage: 57.85 (Second Division).

PERSONAL SKILLS

Language

- English
- Hindi (Mother tongue)

Research Interests

- Numerical simulations & Algorithms
- Disorder systems, Phase transitions, Critical phenomena
- Far-from-equilibrium systems
- Random matrix theory and quantum chaos

Computational skills

- Fortran 77 & 90 Programming languages, MPI Parallel Programming.
- Basics in CUDA-GPU, Shell Scripting, Programming in Mathematica, Lapack.
- Well-versed in graphical utilities like Grace, Gnuplot, etc.

Advanced numerical skills

- Local and cluster update Monte Carlo methods, Ewald summation technique, Parallel tempering and simulated annealing, ground state calculations, pseudo-spectral methods & discretization schemes, molecular dynamics

- Organizational / managerial skills – during my PhD I was teaching assistant for various Master and Pre-PhD courses.  
 – during my PhD I managed 144-core HPC cluster.

## SCIENTIFIC PARTICIPATION

- Talks & Posters – Delivered talk (online) in “IC-ETCMP-2025” held at GGV University Chhattisgarh, India, February 2025.  
 – Delivered talk in “Chimera Seminar” series at Sapienza Università di Roma, December 2024.  
 – Delivered talk in “Journées de Physique Statistique 2024” held at Université Paris-Cité Paris, France, January 2024.  
 – Delivered talk in “CompPhys23” held at Universität Leipzig, Germany, December 2023.  
 – Presented poster in a school at Cargese, France, July 2023, and in a workshop at Les Houches, France, June 2023.  
 – Delivered talk at LPTMC, Paris, France, May 2023.  
 – Delivered talk in “Journées de Physique Statistique 2023” held at Ecole Normale Supérieure de Paris, France, January 2023.  
 – Delivered talk (online) in “CompPhys22” held at Universität Leipzig, Germany, December 2022.  
 – Delivered talk in symposium on “Current Trends in Non-Equilibrium Physics” held at JNU, New Delhi, November 2021.  
 – Delivered talk (online) in “CompPhys20” held at Universität Leipzig, Germany, December 2020.

- Schools & Conferences – Participated in “QLGP Cargèse 2023” held at Cargese, France, July 2023.  
 – Participated in “QuanDi” workshop held at Les Houches, France, June 2023.  
 – Participated in “Bangalore School on Statistical Physics - XII” held online at ICTS Bangalore, June-July 2021.  
 – Volunteered & Participated in “CNSD Conference-2018” held in New Delhi, October 2018.  
 – Participated in “Bangalore School on Statistical Physics - IX” held at ICTS Bangalore, June-July 2018.  
 – Participated in “International conference on Econophys-2017 & APEC-2017” held in New Delhi, November 2017.  
 – Participated in “Conference on Quantum Physics and Madhyamaka Philosophical View” at JNU, New Delhi, November 2015.

## PUBLICATIONS

- 1. **Ramgopal Agrawal**, Leticia F. Cugliandolo, Lara Faoro, Lev B. Ioffe, and Marco Picco. arXiv: 2409.15123 (preprint).
- 2. **Ramgopal Agrawal**, Leticia F. Cugliandolo, Lara Faoro, Lev B. Ioffe, and Marco Picco. Phys. Rev. E 110, 034120 (2024).
- 3. **Ramgopal Agrawal**, Leticia F. Cugliandolo, Lara Faoro, Lev B. Ioffe, and Marco Picco. Phys. Rev. E 108, 064131 (2023) [*Editors’ Suggestion*].
- 4. **Ramgopal Agrawal**, Federico Corberi, Eugenio Lippiello, and Sanjay Puri. Phys. Rev. E 108, 044131 (2023) [*Editors’ Suggestion*].
- 5. Mahendra K. Verma, **Ramgopal Agrawal**, Pradeep Kumar Yadav, and Sanjay Puri. Phys. Rev. E 107, 034207 (2023).
- 6. **Ramgopal Agrawal**, Federico Corberi, Ferdinando Insalata, and Sanjay Puri. Phys. Rev. E 105, 034131 (2022).
- 7. **Ramgopal Agrawal**, Akhilesh Pandey, and Sanjay Puri. Phys. Rev. E 104, 064202 (2021).
- 8. **Ramgopal Agrawal**, Manoj Kumar, and Sanjay Puri. Phys. Rev. E 104, 044123 (2021).
- 9. **Ramgopal Agrawal**, Akhilesh Pandey, and Ravi Prakash. Phys. Rev. E 104, 034208 (2021).
- 10. **Ramgopal Agrawal**, Federico Corberi, Eugenio Lippiello, Paolo Politi, and Sanjay Puri. Phys. Rev. E 103, 012108 (2021).