

Curriculum Vitae

1. Personal Details

Name : Dr. Amrita Singh
Date of Birth : 09/02/1984
Designation : Research Associate (CSIR)
Institution : School of Computational & Integrative Sciences, Jawaharlal Nehru University, New Delhi, India
Nationality : Indian
Gender : Female
Category : General
Marital Status : Married
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2. Academic Qualifications

Degree	Board/University	Year	Percentage	Subject
B.Sc.	CSJMU, Kanpur	2004	76.4%	Physics, Maths
M.Sc.	Lucknow University	2006	70%	Physics
Ph.D.	B.H.U. Varanasi	2013	----	Physics

3. Ph.D. thesis title, Guide Name, Institute/University, Year of Award:

Ph.D. Thesis Title: Monte Carlo Simulations for the Phase Ordering Dynamics in Nematic Liquid Crystals.

Thesis Supervisor: Prof. Shri Singh
Institute/University: Department of Physics,
Banaras Hindu University,

Varanasi, U.P. 221005

Date of Ph.D. registration: July 2007

Date of Thesis submission: August 2013

Year of Award: April 2014

4. Work Experience

S. No.	Organization	Designation	From	To
1	School of Computational & Integrative Sciences, JNU, New Delhi-110067	Visiting Scholar	August 2014	December 2014
2	School of Computational & Integrative Sciences, JNU, New Delhi-110067	Post-doctoral fellow (CSIR-RA)	October 2015	Cont.

5. Professional Recognition

- Qualified CSIR NET JRF in Physical Sciences in June 2007.
- Qualified interview for CSIR RA in 2015.
- I have good computational skill (Programming (Fortran, C, Matlab), Linux/Windows OS, Simulation techniques, etc.)
- I have worked as a student secretary in many conferences and workshops organized by Dept. of Physics, Banaras Hindu University, Varanasi.

6. List of Publications

1. A. Singh, **A. Singh** and A. Chakraborti, *Effect of bond-disorder on the phase-separation kinetics of binary mixtures: A Monte Carlo simulation study*, J. Chem. Phys., **147**, 124902 (2017)
2. M. Patriarca, E. Heinsalu, **A. Singh** and A. Chakraborti “Kinetic exchange models as D dimensional systems: a comparison of different approaches” in Eds. Abergel F., Aoyama H. , Chakrabarti B.K., Chakraborti A., Deo N., Raina D., Vodenska I., *Econophysics and Sociophysics: Recent Progress and Future Directions* (Springer, Milan, 2016).
3. M. Patriarca, E. Heinsalu, **A. Singh** and A. Chakraborti, *Thermal Equilibrium in D-dimensions: From Fluids and Polymers to Kinetic Wealth Exchange Models*, arxiv: 1610.03367 (2016)
4. **A. Singh**, S. Ahmad, S. Puri and S. Singh, *Ordering kinetics in liquid crystals with long-ranged interactions*. Eur. Phys. J. E, **37**, 143 (2014).ISSN: 1292-8941.
5. **A. Singh** and S. Singh, *Phase ordering kinetics in uniaxial nematic liquid crystals with second and fourth rank interactions*, Euro. Phys. J. E, **36**, 13122 (2013). ISSN: 1292-

8941.

6. **A. Singh**, S. Ahmad, S. Puri and S. Singh, *Ordering dynamics of nematic liquid crystals: Monte Carlo simulations*, Europhys. Lett. **100**, 36004 (2012). ISSN: 0295-5075.
7. **A. Singh**, A. Ahmad, S. Puri and S. Singh, *Reply to comment on ordering dynamics of nematic liquid crystals: Monte Carlo Simulations*, Europhys Lett **101**, 36002 (2013).

7. Oral/Poster presentations in conferences/seminars : 12

8. Area of Research Interest: Soft condensed matter physics, liquid crystals, computer simulations (MC, MD, and DPD), Phase ordering Kinetics, Phase transitions, Statistical Physics and Thermodynamics, Complex systems, Sociophysics.

9. Collaborations

1. Banaras Hindu University, Varanasi, U.P.-221005, India
2. Institute of Chemical Technology, Mumbai, Maharashtra-400019, India
3. Hyderabad Central University, Hyderabad, Andhra Pradesh -500046, India

10. Referees

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(Amrita Singh)