

## Profile

Dr. Preeti Bhandari is an Assistant Professor in the Faculty of Physical Sciences at South Asian University, New Delhi. Prior to joining SAU, she held a post-doctoral position at the Indian Institute of Technology Delhi, working in the field of complex disordered systems. She has also conducted post-doctoral research at Ben Gurion University of the Negev, Israel, and the Indian Institute of Science Education and Research (IISER) Mohali. Earlier in her career, she worked as a Senior Research Fellow at Jawaharlal Nehru University, New Delhi.

Her research spans condensed matter physics, statistical mechanics, and computational modeling. She has published in leading international journals and actively presents her work at scientific conferences in India and abroad.

## Qualifications

- Ph.D., Jamia Millia Islamia, New Delhi, India, 2018
- M.Sc., Jamia Millia Islamia, New Delhi, India, 2011
- B.Sc., Gargi College, University of Delhi, India, 2009

## Research Interests

- Complex systems: Coulomb glass and spin glass models
- Equilibrium and non-equilibrium dynamics using Monte Carlo simulations
- Machine learning applications in physical modeling
- Physics-inspired optimization and sampling algorithms

## Recent Publications

1. Phase Ordering Kinetics of the Asymmetric Coulomb Glass Model  
**Preeti Bhandari**, Vikas Malik, and Sanjay Puri  
*Phys. Rev. E* 109, 014135 (2024)
2. Variable Range Hopping in a Non-Equilibrium Steady State  
**Preeti Bhandari**, Vikas Malik, and Moshe Schechter  
*Phys. Rev. B* 108, 024203 (2023)
3. The Effect of Screening on the Relaxation Dynamics in a Coulomb Glass  
**Preeti Bhandari**, Vikas Malik, and Moshe Schechter  
*Phys. Rev. B* 108, 0924208 (2023)
4. A Possible Phase and Dynamical Transition in a Three-Dimensional Electron Glass  
**Preeti Bhandari** and Vikas Malik  
*Annals of Physics* 457, 169437 (2023)

## Fellowship

- UGC-BSR Fellowship, University Grants Commission, India (2014–2017)