

	Research Scholar	2010 to 2018
	Department of Physics, University of Calcutta Supervisor: Prof. Subinay Dasgupta	
TEACHING EXPERIENCE	Assistant Professor (Stage - I) Department of Physics Raja Rammohun Roy Mahavidyalaya affiliated to The University of Burdwan, India	March, 2010 – March, 2016
	Assistant Professor (Stage - II) Department of Physics Raja Rammohun Roy Mahavidyalaya affiliated to The University of Burdwan, India	March, 2016 – March, 2021
	Assistant Professor (Stage - III) Department of Physics Raja Rammohun Roy Mahavidyalaya affiliated to The University of Burdwan, India	March, 2021 – present
PROJECT	UGC Minor Research Project <ul style="list-style-type: none"> • Title: Nonequilibrium Dynamics of Quantum Spin Models • Funded by University Grants Commission (UGC), Govt. of India • Tenure: December 2016 – December 2018 	completed
LIST OF PUBLICATIONS	<ol style="list-style-type: none"> 1. Sourin Chatterjee, Rina De, Chittaranjan Hens, Shyamal K. Dana, Tomasz Kapitaniak, Sirshendu Bhattacharyya, “Response of a three species cyclic ecosystem to a short-lived elevation of death rate”, <i>Scientific Reports</i> 13, 20740 (2023). 2. Sanchayan Bhowal, Ramkrishna Jyoti Samanta, Arnob Ray, Sirshendu Bhattacharyya, Chittaranjan Hens, “Exploring the potential of collective learning to reduce foraging time”, <i>Chaos, Solitons & Fractals</i> 168, 113123 (2023). 3. Protyush Nandi, Sirshendu Bhattacharyya and Subinay Dasgupta, “Detection of Quantum Phase Boundary at Finite Temperatures in Integrable Spin Models”, <i>Physical Review Letters</i> 128, 247201 (2022). 4. Sahil Islam, Argha Mondal, Mauro Mobilia, Sirshendu Bhattacharyya and Chittaranjan Hens, “Effect of mobility in the rock-paper-scissor dynamics with high mortality”, <i>Physical Review E</i> 105, 014215 (2022). 5. Sirshendu Bhattacharyya and Subinay Dasgupta, “Exotic signature of dynamical quantum phase transition in the time evolution of an engineered initial state”, <i>J. Phys. A: Math. Theor.</i> 53, 265002 (2020). 6. Sirshendu Bhattacharyya, Pritam Sinha, Rina De, and Chittaranjan Hens, “Mortality makes coexistence vulnerable in evolutionary game of rock-paper-scissors”, <i>Physical Review E</i> 102, 012220 (2020). 7. Sirshendu Bhattacharyya and Subinay Dasgupta, “Dynamics in quantum Ising chain driven by inhomogeneous transverse magnetization”, <i>European Physical Journal B</i> 90: 140 (2017). 8. Sirshendu Bhattacharyya, Subinay Dasgupta and Arnab Das, “Signature of a continuous quantum phase transition in non-equilibrium energy absorption: Footprints of criticality on higher excited states”, <i>Scientific Reports</i> 5, 16490 (2015). 	

9. **Sirshendu Bhattacharyya**, Arnab Das, and Subinay Dasgupta, “Transverse Ising chain under periodic instantaneous quenches: Dynamical many-body freezing and emergence of slow solitary oscillations”, *Physical Review B* 86, 054410 (2012).
10. Swastika Chatterjee, **Sirshendu Bhattacharyya**, Surajit Sengupta and Tanusri Saha-Dasgupta, “Crossover of cation partitioning in olivines: A combination of ab initio and Monte Carlo study”. *Physics and Chemistry of Minerals* 38, 259 (2010).