Debojit Chanda

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Education

2020–Present	**Ph.D.** in Physics (ongoing) **Indian Institute of Technology Kanpur**, Uttar Pradesh, India Soft and Active Matter Lab, *Supervisor:* Dr. Manas Khan
2018–2020	M.Sc. in Physics, **Indian Institute of Technology Kanpur**, Uttar Pradesh, India
2015–2018	B.Sc. in Physics, **Ramakrishna Mission Vidyamandira**, West Bengal, India (Affiliated to *University of Calcutta*)

Colloquiums Attended

2025 Contributed Talk, **APS Joint March and April Meeting: Global Physics Summit 2025** (*Anaheim Hilton*, California, USA)
2024 Flash Talk & Poster Presentation, **Complex Fluids Symposium (CompFlu) 2024** (*Indian Institute of Technology Hyderabad*, India)
2023 Poster Presentation, **StatPHYS Kolkata XII** (*S. N. Bose National Centre for Basic Sciences*, India)
2022 Poster Presentation, **Complex Fluids Symposium (CompFlu) 2022** (*Indian Institute of Technology Kharagpur*, India)
2021 Poster Presentation, **Complex Fluids and Soft Matter (Virtual CompFlu) 2021** (*Indian Institute of Technology Gandhinagar*, India)
2019 Oral Presentation, **Young Physicists' Colloquium 2019** (*Saha Institute of Nuclear Physics*, India)

Publications

1. **Optical Micromanipulation of Soft Materials: Applications in Devices and Technologies** - Sanatan Halder, Debojit Chanda, Dibyendu Mondal, Sandip Kundu, and Manas Khan (*Springer Nature Book Chapter: ISBN - 978-981-97-9467-6*).
2. **Orientational fluctuations govern the route to crystallization of hard-interacting Brownian squares** - Debojit Chanda, Thomas G Mason, and Manas Khan (*in communication, arXiv:2405.07352*).
3. **Non-muscle myosin IIA motor activity generates a concentration dependent dynamic actin network** - Saurabh Shrivastava, Debojit Chanda, Shayeri Chowdhury, Saadia Naseer, Farmaanullah Ansari, Manas Khan, and Anita Roy (*in communication*).
4. **Delocalization dynamics of vacancy defects in two-dimensional entropic colloidal crystals of Brownian squares** - Manas Khan, Debojit Chanda, and Thomas G Mason (*in preparation*).
5. **Membrane dynamics reveals increased bending modulus of human erythrocytes under uniaxial stretching** - Debojit Chanda and Manas Khan (*in preparation*).

Career Highlights

2021 Selected as **Prime Minister's Research Fellow** (*PMRF, May-2021*)
2020 Secured **AIR 101** in Joint Entrance Screening Test (*JEST*)
2020 Qualified Graduate Aptitude Test in Engineering (*GATE*) with score 540
2020 Qualified TIFR GS2020, called for interview.
2019 Secured **AIR 119** (*JRF*) in Joint CSIR-UGC National Eligibility Test (*NET*) in Physics
2018 Secured **AIR 60** in Joint Entrance Screening Test (*JEST*)
2018 Secured **AIR 69** in Joint Admission test for Masters (*JAM*)
2015 **DST-INSPIRE Scholarship for Higher Education** (SHE) during *B.Sc.* and *M. Sc.* (till 2020)