

Shivam Gupta

S/o Sh. Mohinder Kumar

Ph. D. student

Department of Physics, IIT Kanpur.

email: shivamg20@iitk.ac.in

10shivamgupta@gmail.com

EDUCATIONAL QUALIFICATION

2022 - Present	Ph. D.	Indian Institute of Technology, Kanpur	10/10
2020 - 2022	M. Sc. (Physics)	Indian Institute of Technology, Kanpur	8.9/10
2017 - 2020	B. Sc.	D.A.V. College, Abohar, (Panjab University, Chandigarh)	92.1%

NATIONAL LEVEL EXAMINATIONS QUALIFIED

- GATE 2022 • CSIR-NET June,2021 (JRF) • IIT-JAM- 2020 • JEST- 2020

PH.D. COURSEWORK

- ME724A: Mechanics of Biological Membranes • PHY627A: Computational Simulation Methods in Physics
- CHE622A: Introduction to Molecular Simulations • PHY677A: Optical Imaging

AWARDS AND HONOURS

- **Prime Minister Reseach Fellowship (PMRF)** from Ministry of Education, Government of India in 2022.
- **Proficiency Medal** from IIT Kanpur for the best undergraduate project work done by graduating students in the 2-year M. Sc. programmes in each of the departments in 2022.
- **Summer Research Fellowship** jointly from Indian Academy of Sciences, Bengaluru - Indian National Science Academy, Delhi - The National Academy of Sciences, Paraygraj in 2021.
- Secured First Position in **Vigyan Utsav Quiz Competition**, D. A.V. College, Abohar, (Punjab), 2020.
- Secured First Position in **Scifest Quiz competition**, D. A.V. College, Abohar (Punjab), 2019.
- Secured First Position in **Scifest Quiz competition**, D. A.V. College, Abohar (Punjab), 2018.
- Secured First Position in **Quiz competition in 60th Punjab University Zonal Youth And Heritage Festival** (Sri Muktsar Sahib Zone), 2018.

TEACHING ACTIVITY

- Workshop on **Basics of Python Programmimg Language for Data Analysis and Visualisation**, D.A.V. College, Abohar (Nov. 6th - 8th, 2023)
- Tutorial sessions for the course **Numerical Methods And Simulation Techniques For Scientists And Engineers**, NPTEL (July - Sep., 2023)
- Videos and presentation with animations and experiments on high school physics topic **Image formation by lenses** to be demonstrated in digital event, Science for Rural India (SFRI) (March - July, 2023)
- Workshop on **Basics of MATLAB Programmimg Language**, University Institute of Engineering and Technology, Chhatrapati Shahu Ji Maharaj University, Kanpur (UIET) (March - April,2023)
- Teaching Assistant for the course **PHY 224A: Optics**, IIT Kanpur (Aug. - Nov., 2022)

PUBLICATIONS

- **Shivam Gupta**, Jatin Soni, Awneesh Kumar, and Taraknath Mandal. "Origin of the nonlinear structural and mechanical properties in oppositely curved lipid mixtures." J. Chem. Phys.(2023)
doi:-<https://doi.org/10.1063/5.0167144>
- Taraknath Mandal, **Shivam Gupta** and Jatin Soni. "Simulation study of membrane bending by protein crowding: a case study with the epsin N-terminal homology domain." Soft Matter (2023).
doi:-<https://doi.org/10.1039/D3SM00280B>

- **Shivam Gupta** and Taraknath Mandal. "Simulation study of domain formation in a model bacterial membrane." *Physical Chemistry Chemical Physics* (2022): 18133-18143.
doi:- <https://doi.org/10.1039/D2CP01873J>.

CONFERENCES/ WORKSHOPS/ INTERNSHIPS

- Participated in the NSM workshop on *Multiscale modelling using exascale computing* organized in Indian Institute of Science, Bengaluru. (6th -15th July, 2023)
- Attended *National Students' Research Convention on Healthcare and MedTech* held at Indian Institute of Technology Kanpur. (3rd-5th March 2023)
- Poster presentation on "*Non-linear behavior of structural and mechanical properties of mixed lipid bilayer.*" at Research Scholar Meet 2023, Department of Physics, IIT Kanpur. (28 Jan. 2023)
- Summer Research Internship Project: "*Study of charmonium and bottonium mesons*" at Sardar Patel University, Vallabh Vidyanagar. (May-July, 2021)

DECLARATION

I hereby declare that the information given above is complete and correct to the best of my knowledge.

Place:- Kanpur

Shivam Gupta