

Pratyush Bhattacharjya



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EDUCATION

University of Hyderabad <i>M.Sc. Chemistry</i>	July 2019 - August 2021 <i>CGPA: 9.22/10.0</i>
St. Xavier's College Kolkata (University of Calcutta) <i>B.Sc. Chemistry</i>	July 2016 - June 2019 <i>Percentage: 76.42(combined)/78.28(majors)</i>
Julien Day School Kalyani <i>Indian School Certificate (ISC) (XII)</i>	2016 <i>Percentage: 96.8</i>
Julien Day School Kalyani <i>Indian Certificate of Secondary Education (ICSE) (X)</i>	2014 <i>Percentage: 91.6</i>

COURSEWORK

M.Sc.:

- Computer Programming Lab (CY406)
- Chemical Binding (CY504)
- Advanced Reaction Dynamics (CY576)
- Density Functional Theory (CY575)
- Instrumentation and Computer Applications Lab (CY507)

B.Sc.:

- Computational Methods & Instrumental Methods (CH34551P)

AWARDS

- Award For School Topper in Class XII (2016) - ISC (AIR-10)
- Jagadish Bose National Talent Search Scholarship (2016)
- INSPIRE Scholarship (2016)
- GP Birla Scholarship (selected) (2016)

SKILLS

Languages and Software:

Fortran 77, Matlab, Python, Wolfram Mathematica,
XPPAUT, GAMESS, Gaussian, ORCA, MOPAC, \LaTeX

INTERESTS

Theoretical and Computational Chemistry

- Electronic structure methods and their application to chemically interesting atomic and molecular systems.
- Studying Reaction Mechanisms and Dynamics by use of Quantum Mechanical Tools.

‘Cisplatin: The Penicillin of Cancer’

2017

- **Authors:** Pratyush Bhattacharjya, Aritra Roy, Avik Kumar Ojha
- Presented at ‘Facets of Chemistry in Biology (FOCB) 2017’, An International seminar organized by the Dept. of Chemistry, St. Xavier’s College (Autonomous), Kolkata

‘Molecular Machines’

2018

- **Authors:** Debarshi Banerjee, Pratyush Bhattacharjya, Aritra Roy, Kuntal Ghosh, Triasha Pal
- Presented at ‘Facets of Chemistry in Materials and Biology (FOCMB) 2018’, A National seminar organized by the Dept. of Chemistry, St. Xavier’s College (Autonomous), Kolkata
- Awarded the First Prize for the Best Poster

‘Photochemistry of tris (2,2’) bipyridyl ruthenium(II)’

2019

- **Authors:** Aritra Roy, Avik Kumar Ojha , Pratyush Bhattacharjya, Anustup Mukherjee
- Presented at ‘Modern Research Trends in Chemistry (MRTC) 2019’ , A National seminar organized by the Dept. of Chemistry , St. Xavier’s College (Autonomous) Kolkata , in partnership with The Royal Society of Chemistry (Eastern India Section).

RESEARCH EXPERIENCE

Undergraduate Thesis work | *B.Sc.*

Nov. 2018 – Apr. 2019

‘Applying Boltzmann’s Distribution Law to deduce the second law of thermodynamics’

Supervisor: Dr. Ashish Kumar Nag**Postgraduate Thesis work | *M.Sc.***

Jan. 2021 – Jul. 2021

‘Noise Induced Pattern Formation in a Reaction Diffusion System’

Supervisor: Dr. Debashis Barik**Computational Biology Project | *Project Associate***

Aug. 2021 – Dec. 2022

Work on Small as well as Complex Bistable Network Switches

Supervisor: Dr. Debashis Barik (with Dr. Soutrick Das) (University of Hyderabad)**Theoretical and Computational Chemistry Project | *Visiting Student***

Jan. 2024 – June 2024

Theories of Quantum Mechanics in Chemistry

Supervisor: Dr. Sangita Sen (Indian Institute of Science and Research Kolkata (IISER-K))

QUALIFIED EXAMS

- CSIR UGC NET Dec. 2023 - JRF UGC (AIR 58)
- CSIR NET Dec. 2020 , Jun. 2022 - Lectureship
- GATE 2023, 2024 Qualified

PERSONAL DETAILS

Sex: Male**Date of Birth:** 25th August 1998**Category:** General**Father’s Name:** Bhabatosh Bhattacharjya**Mother’s Name:** Kalpana Bhattacharjya**Permanent Address:** Palpara East, Near Durga - Kali Mandir, Chakdaha (Municipality Ward - 01), Nadia, West Bengal - 741222**Marital Status:** Single**Phone number(s):** +91 8017877162, +91 8179513816**Email ID(s):** pratyushbhattacharjya@gmail.com , pbhattach998@gmail.com**Hobbies:** Watching Movies and Football, Playing cricket