



ARITRA NATH

5th Year BS-MS Student

PROFILE

BS-MS Final year student at Indian Institute of Science Education and Research (IISER), Kolkata, currently pursuing MS Thesis at RedOx Lab on electro-organic synthesis.

Beyond academia, I enjoy to engage myself in recitation, painting and listening music.

RESEARCH INTERESTS

1. Electro-organic Synthesis
2. Organic Synthesis and Molecular Catalysis (Photo-redox Catalysis, Organocatalysis, Transition-metal catalysis)

CONTACT

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EDUCATION

➤ **Present Institution: IISER Kolkata**, West Bengal, India
Current CGPA = 9.69 [Up to 8th Semester of BS-MS Degree]
[19MS Department topper]

➤ **School Name: K.T.P.P. High School (H.S)**, West Bengal, India

- **Higher Secondary (Class- XII)** | West Bengal Council of Higher Secondary Education
Year of Passing- **2019** | Percentage: **94.6 %** | Grade – **“O”**
- **Secondary (Class- X)** | West Bengal Board of Secondary Education
Year of Passing- **2017** | Percentage: **96.28 %** | Grade – **“AA”**

WORK EXPERIENCE

MS Thesis Project | RedOx Lab | IISER Kolkata | India
[Mar, 2022–Present]

Topic: “Metal-free Electrochemical Synthesis of Quinoline derivatives”
Supervisor: Dr. Suman De Sarkar

DAAD-WISE Project | University of Regensburg | Germany
[May – July, 2023]

Topic: “Photoinduced Cu-catalyzed Sonogashira type Cross-Coupling”
Supervisor: Prof. Dr. Oliver Reiser

Winter Internship | IIT Bhubaneswar | India
[Dec, 2022]

Topic: “Bioactive Phenanthridine Alkaloids Synthesis”
Supervisor: Dr. Tabrez Khan

Summer Internship | IIT Madras | India
[May – July, 2022]

Topic: “Organic Cascade Transformations via Visible Light Photo-redox Catalysis with Aryl Radical”
Supervisor: Md. Mahiuddin Baidya

Summer Internship | IISER Kolkata | India
[May – July, 2021]

Topic: “Electrocatalytic Water Oxidation from Lab to Market”
Supervisor: Dr. Soumyajit Roy

ACHIEVEMENTS

- Selected as summer intern in DAAD WISE program, RESOLV Undergrad. Exchange Program, MITACS Globalink and OIST Research Internship Programs (2023).
- INSPIRE Fellow (2019-present) [Inspire Scholarship for Higher Education (SHE), offered by DST].
- An Awardee of Jagadish Bose National Science Talent Search Junior Scholarship (JBNSTS JTST) in 2017.
- **Publication:** Sen, R.; Das, S.; Nath, A.; Maharana, P.; Kar, P.; Verpoort, F.; Liang, P.; Roy, S. Electrocatalytic Water Oxidation: An Overview With an Example of Translation From Lab to Market. *Front. Chem.* 2022, 10, 1–24. doi: <https://doi.org/10.3389/fchem.2022.861604>