

Jhulik Dutta

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A 5th year BS-MS student at IISER-Kolkata, majoring in Chemical Science, currently working on a project based on Electrochemical organic synthesis.

ACADEMICS

Institution	Qualification	Year	Percentage/ current CGPA
IISER Kolkata	5 years' BS-MS dual degree	2017-2022	9.36 (Till 8 th Semester)
Hura High School (H.S.)	12 th Standard	2017	88.8%
Hura Girls' High School (H.S.)	10 th Standard	2015	93.8%

RESEARCH EXPOSURE

- August 2021-
MS thesis: at IISER-Kolkata
Project: "*Electro-oxidative intramolecular addition of enamines to alkynes: Easy access to dihydro-pyrrole-3-carbaldehydes*"
Supervisor: Dr. Suman De Sarkar
- June 2020 – July 2020
Online Summer Internship: conducted by, IISER- Kolkata.
Project: Conceptual study on "*Schlenk Equilibrium and Molecular Alkaline Earth Metal Hydrides*".
Supervisor: Dr. Debabrata Mukherjee.
Concepts learned: Schlenk equilibrium, stability of the alkaline earth metal Hydrides and their potential applications, ligand designing to make them stabilized.
- May 2019 – July 2019
Summer research trainee: Bio-inspired polymeric material lab, IIT-Guwahati.
Project: "*Fabrication of Chitosan Based Biodegradable Sponge*".
Supervisor: Dr. Uttam Manna
Techniques learned: Gel and Sponge preparation using Lyophilizer, UTM analysis for mechanical durability checking, SEM and TEM image analysis, Contact angle measurement.
- Work experience at Redox Lab (IISER Kolkata) under the supervision of Dr. Suman De Sarkar.
 - Work experience at Supramolecular and Functional Material Lab (IISER Kolkata) under Dr. Supratim Banerjee.

FELLOWSHIPS

- **Innovation in Science Pursuit and Inspired Research (INSPIRE) Fellowship:** Grant from **DST, Govt. of India** (August 2017 - Present).
- **Swami Vivekananda Merit-cum-Means (SVMCM) Scholarship:** Grant from **Govt. of West Bengal** for 2 years (Class XI - XII).

CONFERENCES

- *1st Chemical Science Young Investigator Symposium* (organized by RSC), held at IISER-Kolkata
- *GIAN Course-2019 on Science Communication* by Prof. Lewis Dartnell.
- *Vijoyoshi Science Camp – 2017* conducted by DST, INSPIRE at IISER Kolkata.

SKILLS and EXPERTISE

Language Skill: Bengali (Mother tongue), English, Hindi

Software and tools: MS office, Origin Pro, Chemdraw

Technical skill: Purification and Chromatographic techniques; NMR, ESI-MS, IR spectra analysis; SEM. TEM image analysis; UV-vis, Fluorescence spectroscopy; Electrochemistry.

ACHIEVEMENT

- Centre topper in **Mimamsa- 2020** from IISER Kolkata.
- Position within the **top 1 percentile score** in 10th (WBBSE) and 12th standard (WBCHSE).