



Barnika Chakraborty



europass

Date of birth: 05/11/1997 | **Nationality:** Indian | **Gender:** Female |

(+91) 8584085923 | barnika1724chaks@gmail.com |

<https://www.footstepsync.com/> |

<https://www.linkedin.com/in/barnika-chakraborty-281168177/> |

47/3/3, Andul 1st bye lane, D. S. Lane, 100 feet Road, Vasundhara Apartment,
Gr. Floor, Howrah-711109, 711109, Howrah, India

About me:

I am deeply interested and motivated to learn and contribute into research in chemistry that involves application of nanomaterials in diversified fields, drug chemistry, organic chemistry, material science. I believe that I will remain potent, loyal and highly efficient with an objective to obtain higher knowledge and reach greater heights in the field of research .

● WORK EXPERIENCE

02/2022 – CURRENT – Pune, India

JUNIOR EDITORIAL ADVISOR – SPRINGER NATURE TECHNOLOGY AND PUBLISHING SOLUTIONS PVT. LTD.

22/08/2021 – 22/12/2021 – Pune, India

PROJECT STUDENT – SAVITRIBAI PHULE PUNE UNIVERSITY

Biosynthesis of copper nanoparticles and studying it's catalytic as well as anti- bacterial applications. I handled and analysed UV-Vis-NIR, XRD, FESEM, EDX, GCMS during this tenure. I also learnt operating Origin to plot graphs on my datas obtained. Biosynthesis is green but reproducibility is difficult. That is where our challenge lies.

22/06/2021 – 22/08/2021 – Pune, India

PROJECT STUDENT – SAVITRIBAI PHULE PUNE UNIVERSITY

Bioactive properties of ZnO nanoparticles synthesized using Cocos nucifera leaves- a **research manuscript already published**. I excelled in learning and utilising powerpoint presentation at this tenure during my presentations and analyzing all characterization techniques such as FESEM,XRD, ATR-IR, HRMS as well.

08/03/2021 – 07/07/2021 – Lucknow, India

PROJECT TRAINEE – CENTRAL SCIENTIFIC INSTITUTE OF RESEARCH- CENTRAL DRUG RESEARCH INSTITUTE

Visible Light Mediated Formal 1,3- Dipolar Cycloaddition of 2H-Azirines with N- Tosylimies and Chalcones- concerning organic synthesis majorly. Operated computer skills related to research such as Sci Finder, Chem Draw, Mnova, MS Excel and excelled at purification techniques such as TLC, Column Chromatography, etc. I also learnt analysing my compounds through NMR and ESMS. Weekly presentations were conducted and work report was also prepared.

03/2021 – 07/2021 – Pune, India

PROJECT TRAINEE – SAVITRIBAI PHULE PUNE UNIVERSITY

Virtual Project on Gold Nanoparticles and their biomedical applications that included attending lectures and demonstrations alongside oral Presentations every weekend. Wrote a review combining many papers read.

05/06/2020 – 05/08/2020 – Jorhat, India

PROJECT TRAINEE – CENTRAL SCIENTIFIC INSTITUTE OF RESEARCH- NORTH EASTERN INSTITUTE OF SCIENCE AND TECHNOLOGY

Virtual Project on Membrane Science and Technology that included attending lectures and demonstrations alongside oral Presentations every weekend.

15/02/2022 – CURRENT – Noida, India

BOOK CHAPTER ON "CHARACTERIZATION OF POLYMERS BASED ON BIOMEDICAL APPLICATIONS" – ASHOKA UNIVERSITY (VIRTUAL MODE) AND IIT HYDERABAD

Writing a book chapter of 25 pages on the given topic maintaining proper writing skill and authenticity.

2018 – CURRENT – Online, India

CHEMISTRY SUBJECT MATTER EXPERT – CHEGG INDIA PVT. LTD.

To solve academic doubts of students using graphics and writings related to chemistry

04/2016 – CURRENT – Kolkata, India

PRIVATE CHEMISTRY TUTOR – SELF

Taking chemistry classes for students from secondary and senior- secondary sections. I also helped prepare students for national competitive examinations.

05/2021 – 06/2021 – Online, India

ENGLISH PUBLIC SPEAKING TUTOR – LEAPSCHOLAR. COM, SELF

Train my peers for the IELTS speaking test.

● EDUCATION AND TRAINING

14/08/2019 – 25/08/2021 – Ganeshkhind Road, Ganeshkhind, Pune, Maharashtra, Pune, India

MASTERS IN MEDICINAL CHEMISTRY WITH 8.7 CGPA – Savitribai Phule Pune University (Formerly University of Pune)

www.unipune.ac.in

09/2016 – 06/2019 – 181, Bidhan Sarani, Manicktala, Azad Hind Bag, Kolkata, West Bengal-700006, Kolkata, India

B. SC. (HONOURS) IN CHEMISTRY – Bethune College, University of Calcutta

www.bethunecollege.ac.in

03/2014 – 03/2016 – 11, Lord Sinha Road, Elgin, Kolkata, West Bengal, Kolkata, India

CBSE CLASS 12TH BOARD EXAMINATION – Shri Shikshayatan School

www.shrishikshayatanschool.com

06/2021 – 06/2021 – College Road, Karaikudi, Tamil Nadu, Karaikudi, India

SKILL DEVELOPMENT TRAINING – CSIR-CECRI

<https://cecri.res.in/Default.aspx>

<http://www.iitkgp.ac.in/>

● LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C2	C2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

Bioactive properties of ZnO nanoparticles synthesized using Cocos nucifera leaves

<https://doi.org/10.1007/s13205-022-03110-9> – 2022

Book Chapter on "Morphology Based Biosensing of Metallic Nanoparticles"

Submitted for Publication as first author
2021

● CONFERENCES AND SEMINARS

International webinar at Osaka University, Japan, 2021

Webinar on "Fundamentals of NMR" at Govt. Madhav Science P.G. college, Ujjain, June, 2020

Scientific Oral and Powerpoint Presentation on "Boron Chemistry and its application to cancer drugs" at Prof. Arnika Lecture Competition at Savitribai Phule Pune University, Pune, 2020

Poster presentation session on "Role of cis-platin in Anti-Cancer Drugs" organized by Department of Chemistry, St. Xavier's College and the Royal Society of Chemistry, Kolkata, February, 2019

Chemistry Workshop on "Science is Fun" conducted by Professor Uday Maitra at Rahara Ramakrishna Mission, Kolkata at 2017.

● HONOURS AND AWARDS

13/06/2021

CSIR-NCL Merit Based Scholarship – Central Scientific Institute of Research-National Chemical Laboratory

For topping the merit list of Medicinal Chemistry Branch.

17/12/2021

Oral Presentation at International E-Conference – Sadguru Gadage Maharaj College Karad, India 415124 Karad India

First Prize for presenting my work on ZnO Nanoparticles using powerpoint.

21/05/2016

AISSCE(Subject highest) – Central Board of SEcondary Education

Scored 95% in Physics-subject highest in high school

2014

Best Student Award – Shri Shikshayatan School

For performance in Academics, Sports and Cultural Events

2014

First Prize for Model and Chart Making – Bengal Chamber

Lead a team of 5 and won this award in an inter-school competition.

● RECOMMENDATIONS

Dr. Vaishali Shinde – Professor – vaishali.shinde@unipune.ac.in

Master's Co-ordinator and Professor

Dr. Anupa Kumbhar – Professor – anupakumbhar@gmail.com

Professor