



## Gargi Mukhopadhyay

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## Motto:

Cumulative growth  
and success through  
individual effort

### Soft Skills

- Project Management
- Interpersonal Skills
- Analytical Thinking
- Communication Skills
- Organisational Skills
- Time Management

### Software Skills

- MS Word
- MS Excel
- MS PowerPoint
- Origin
- EC-Lab

### Technical Skills

- Cyclic Voltammetry
- Electrochemical Impedance Spectroscopy
- FTIR, UV-VIS, Raman
- Protein purification
- Genetic engineering

Degree	Institute	CPI/ DGPA	Year
PhD Graphene-based Electrochemical Biosensing	IIT Bombay (India) and Monash University, (Australia)	10 (1 <sup>st</sup> year)	2016-Present (submitted)
M.Tech Biotechnology	IIT Guwahati, Assam	9.6	2016
B.Tech Biotechnology	Heritage Institute of Technology, Kolkata	8.7	2014

### Research Work Experience and Output

- Fabricated graphene-based flexible electrochemical biosensor for glucose detection as part of the PhD thesis work; leading to a Best Poster award (Second Annual ARC Graphene Research Hub Workshop, 2020), and a publication (to be submitted)
- Fabricated a graphene-based electrochemical biosensor for detection of “smoke taint” in wine as part of the PhD thesis work, leading to a publication (to be submitted)
- Developed recombinant GST-stabilized nanoparticle conjugate for the detection of glutathione as part of the M.Tech thesis work, resulting in a publication and a patent down the line
- Worked on optimizing process conditions for degradation of phenol by a mixed consortium extracted from East Calcutta Wetlands using response surface methodology (B.Tech 4th year project)
- Worked on genetic transformation of Mung bean using *bar* gene as a herbicide based selection marker as part of Bachelors summer project at IIT Guwahati.
- Evaluated immunoglobulin responses in visceral leishmaniasis as a Bachelors summer project, at I.P.G.M.E.R (S.S.K.M Hospital, Kolkata)

## Administrative Experience

- Worked as Administrative Teaching Assistant for Chemical Engineering lab in IIT Bombay for three semesters (1.5 years)
- Worked as Invigilating Teaching assistant for Biology 101 at IIT Guwahati, for two semesters (1 year)

## Teaching Experience

- Tuition for school students between 2<sup>nd</sup> - 12<sup>th</sup> grade
- Teaching experimental techniques and analytical thinking to PhD scholars new to my expertise

## Academic Achievements

- GATE 2014, AIR-196, Score 601
- Best Speaker against the motion “drinking water should be priced” organized by Dept. of Biotechnology, Heritage Institute of Technology, Kolkata and National Environmental Science Academy, West Bengal Chapter. 26th February, 2013
- WBJEE 2010 RANK- 6610

Qualification	School/ Board	Percentage (%)	Year
ISC	St. Agnes School, Kharagpur, CISCE	83.8	2009
ICSE	St. Agnes School, Kharagpur, CISCE	90.2	2007

## Extra Curriculars

- Participated and won many awards for debate at inter and intra school level.
- 3rd in intra school debate 2005
- 2nd in intra school debate 2006
- 2nd position in Inter school debate 2005
- Participated in Inter School Debate 2006, 2007.

## Language Proficiencies

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Hindi	Excellent	Good	Good
Bengali	Excellent	Excellent	Excellent