

PERSONAL INFORMATION

Brinti Mondal

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Date of birth 28 March 1997 | Nationality Indian

EDUCATION AND TRAINING

2018–2020

M.Sc. in Energy Science in Engineering

Indian Institute of Technology Bombay, India

- **Modelling of EIS using COMSOL and PNP and MPNP model** under Prof. Sankara Sarma v Tatiparti (Master's Project)
- **Synergistic analysis of mixed metal oxide and identification of the best suitable composition for supercapacitor application** under Prof. Sankara Sarma v Tatiparti (Master's Project)
- **Literature review and proposal of a new combination of materials on application of Metal-Organic Framework on Supercapacitors** under Prof. Sankara Sarma v Tatiparti (Master's Project)
- **Literature review on Wearable Supercapacitors** under Prof. Sankara Sarma v Tatiparti (Master's Project)
- **Application of Ionic Liquids (ILs) for Supercapacitor** application under Prof. Amartya Mukhopadhyay (Course Project)
- **Application of Metal-Organic Framework (specifically MOF-5) on Supercapacitors** under Prof. S. Parida (Course Project)
- **Selection of battery for solar energy storage** under Prof. Sagar Mitra (Course Project)
- **Status of current Technology and opportunities of Hydrogen** in the Industrial sector in Eurasia under Prof. Pratibha Sharma (Course Project)
- **Economic Analysis of E-Shuttle (Maini) and its Life Cycle Assessment Analysis** under Prof. Rangan Banerjee (Course Project)
- **Analysis of Energy Balance of Chile using SankeyMATIC** under Prof. Rangan Banerjee (Course Project)
- **Optimization of Biogester for maximum yield of Biogas** under Prof. Venkatasailanathan Ramadesigan (Course Project)

2019 **Internship**

Bio-Physics lab, Bose Institute, Kolkata, Under Dr. Smarajit Polley

- Basic biological techniques and gained knowledge on bioseparation methods and preparation of protein samples for X-ray crystallography. She also learned handling bacterial culture, its growth and maintenance.
- Literature review on bioelectrochemical systems integrated with membrane-based technologies for water and wastewater treatment

2015–2018 **B.Sc. in Chemistry**

University of Calcutta

PERSONAL SKILLS

Mother tongue Bengali

| Other languages | UNDERSTANDING | | SPEAKING | | WRITING |
|-----------------|-----------------------------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | C2 | C2 | C2 |
| | University (IIT Bombay) certified | | | | |
| German | A1 | A1 | A1 | A1 | A1 |

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Leadership skills (organisational, managerial and communication skills)

- Mess Councilor at **Hostel 10, IIT Bombay** (Manged stay and food supply of 500 female student during pandemic at IIT Bombay) [2020-2021]
- Department Coordinator (DC) of DESE, as a part of **Institute Student Companion Program (ISCP)**, IIT Bombay (Guided and helped juniors at the new environment provided the basic informations related to our interdisciplinary program) [2019-20]
- Media and Marketing Manager of **Energy Day** (The Department of Energy Science and Engineering organizes an annual event, Energy Day, to familiarize the industry and society with the current state of energy technology research going on in DESE. The event seeks to introduce research students of the department to the energy industry with their research topics, in order to further the relationship between them. Energy Day comprises of oral and poster presentations by the students of the department) [2019]
- Media-PR coordinator of **Abhyuday**, The Social body of IIT BOMBAY (a group of socially inclined students who felt the need for a body, which provides opportunities to the students of the institute who wish to work for a better society.) [2018]
- Coordinator of **Career Counseling Campaign of Mumbai, organized by Abhyuday**, IIT Bombay (A Career Counselling Campaign (CCC) was organized by Abhyuday IIT Bombay, which aims to mentor and guide school/college students from 7th to 12th standard about myriad career opportunities available in a variety of fields like PCM, PCB, Commerce, and Arts etc. Volunteers from different backgrounds mentor and guide these students for the same. With the vision to create an impact on different sections of the society by creating awareness about the importance of education through successful Career Counselling Campaigns, Abhyuday has provided career guidance to over 7000 students across 50+ schools in different areas of Mumbai in the past. Following the same lines, this time, the Career Counselling Campaign was conducted in 60+ schools across Mumbai covering 10,000+ students on 26th November 2018)[2018]

Volunteering experience

- Volunteered for a LaTex Workshop at IIT Bombay [2020]
- As a part organizing team in “**International Conference on Advances in Energy Research (ICAER 2019)**” at IIT Bombay [2019]
- Volunteered for a Python Workshop at IIT Bombay [2019]
- Volunteered for department and institute convocation organisation team at IIT Bombay [2010,2019]
- Participated as a trainer of the **Guinness World Records for lighting the most number of solar LED lamps simultaneously**, IIT Bombay [2018]

Extra curricular

- Recognised as Energy Literate by the **Energy Swaraj Foundation** [2020]
- Certified trainee of ‘Helping Through Isolation’ and ‘Spreading Awareness about Suicide’ by **The Zero Suicide Alliance (ZSA)** [2020]
- Certified online counselor (post: listener) at **7cups.com** (Mental health supporter) [2020]

Digital competences

SELF-ASSESSMENT

| Information Processing | Communication | Content creation | Safety | Problem solving |
|------------------------|------------------|------------------|------------------|-----------------|
| Basic user | Independent user | Proficient user | Independent user | Basic user |

Digital competences - Self-assessment grid

Computer skills

- Competent with most Microsoft Office programmes
- Frequent user of Origin Lab
- Fluent user of Latex
- Familiar with basic MATLAB, python, SIMULINK and Machine learning