

# DEBARCHAN MONDAL

RESEARCH SCHOLAR, UNIVERSITY OF CALCUTTA



## CONTACT

📞 9064368953

✉ mondaldebarchan801@gmail.com

📍 Contai, East Midnapore

🌐 debarchanmondal.github.io

## RESEARCH INTERESTS

- Space Microbiology
- Low-Cost Scientific Instrumentation
- Bioinformatics & Molecular Simulation
- Microgravity-Driven Host-Pathogen Interactions Using Cell Culture

## LANGUAGES

- Bengali
- Hindi
- English

## REFERENCE

**Prof. Pubali Dhar**

Dept. of Home Science, CU

**Phone:** 9433122560

**Email :** pdhomesc@caluniv.ac.in



## PROFILE

Researcher in space microbiology, bioinformatics, robotics, and instrumentation, studying microbial responses to microgravity. Skilled in experimental design, computational analysis, and tool development. Passionate about creating affordable scientific solutions to enhance research capabilities in resource-limited settings.



## SKILLS

### Analytical Instrumentation

Proficient in operating and interpreting data from Gas Chromatography (GC), Fluorescence Microscopy, SDS-PAGE, RT-PCR, NanoDrop Spectrophotometry, and FTIR Spectroscopy for analytical and molecular diagnostics.

### Scientific Visualization & Data Representation

Skilled in creating clear and informative visual representations of complex datasets using tools like GraphPad Prism, Origin, R, and Python (Matplotlib, Seaborn).

### Embedded Systems & Microcontroller Programming

Experienced in C/C++ based Arduino development for real-time applications involving sensor networks, actuator control, and IoT-enabled systems.

### Web Interface Development

Adept at designing and deploying responsive, user-centric web interfaces with a focus on functionality and visual appeal.



## EDUCATION

### P.hD (ongoing)

Department of Home Science | Calcutta University

2022

**Thesis title: Effect of Simulated Microgravity on Growth, Antibiosis, And Pathogenicity of Probiotic and Pathogenic Bacteria**

### Master of Science

Clinical Nutrition and Dietetics | Vidyasagar University

2018 - 2022

**Percentage: 82**

### Bachelor of Science

Nutrition and Dietetics | Vidyasagar University

2016 - 2018

**Percentage: 68.75**