

## GAYATHRI GOPINATH

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I am a Master's student at the Indian Institute Of Science Education and Research - Kolkata (IISER- K), majoring in Biological Sciences.

**Objective:-** At the moment, I aspire to explore the intricacies of neurobiology, neuroinflammation, and neuroimmunology and apply them in the field of Neurodegenerative diseases to find possible solutions as a science scholar.

## EDUCATION

- **INTEGRATED BS-MS**

**Indian Institute of Science Education and Research, Kolkata**

*Integrated Bachelor and Masters of Science in Biological Sciences- (August2018-Present)*

**CGPA:** 7.45/10.00 (7 semesters)

**Relevant Coursework:** Neurobiology, Developmental Biology, Genetics, Biochemistry, Cell Biology, Biophysics, Molecular Biology, Structural Biology, Immunology

- **HIGHER SECONDARY**

*TRKHSS-Vaniyamkulam, Palakkad, Kerala, India (Kerala Board Of Secondary Examination)-2017*

**Obtained Percentage-90.5%**

- **HIGH SCHOOL**

*Carmel School-Shoranur, Palakkad, Kerala, India(Central Board Of Secondary Education)- 2015*

**Obtained Percentage-95%**

## PROJECTS

- **Semester Project**

Use of human-induced pluripotent stem cells in modeling neurodegenerative diseases.

Dr. Swagata Ghatak, IISER Bhopal ( ongoing project)

- **Reading Project**  
Epigenetics of neurodegenerative diseases  
Dr. Babu Sudhamalla, IISER Kolkata (2021)
- **Summer Internship**  
Astroglia, Microglia, and Oligodendrocyte mediated secretion of chemokine and their receptor.  
Prof. Jayasri Das Sarma ,IISER Kolkata- (2021)

## WINTER SCHOOL

- **Winter School**  
Systems Biology  
International center for theoretical physics (Tata Institute Of Fundamental Research), (2021)

## CONFERENCE

- **Participant**  
IAN-Neuroglia in Health and disease
- **Participant**  
CRISPR National Conference
- **Student panelist**  
Panel discussion on Tips & Resources to Address Engagement & Minimize Stress in the Virtual Classroom conducted by National Association of Biology Teachers(NABT)-( 2021)
- **Participant**  
Bilateral Indo-US Webinar on COVID Biology of Medicine, organized by Indian Institute of Science Education and Research Kolkata, India in collaboration with IISc, Bangalore, India, the University of Pennsylvania, and University of Colorado, School of Medicine, USA -(2020)
- **Participant**  
One Day International Webinar organized by Cytogenetics and Genomics Research Unit, Department of Zoology, University of Calcutta- 20220

## COURSEWORK PROJECT

- **Coursework Project**  
Urbanization and Bird Population on IISER K campus  
2020  
Using graphs and Mann–the Whitney U test bird population in the highly and sparsely vegetated areas are analyzed
- **Coursework Project**  
Cell Imaging Project

Pneumonia detection using image analysis

2019

The project aimed to apply different Image J options in pneumonia determination.

- **Coursework Project**

Chemical Ecology

Pollination of T stans by bees and ants

2019

The project aimed to understand why and how the pollinators get attracted to the chosen specimen.

## **ACHIEVEMENTS AND SKILLS**

- Scholar at IISER Kolkata student (2018-present)
- Qualified JEE (Joint Entrance Examination) and secured admission in NIT (National Institute of Technology) (later chose to join IISER Kolkata)
- Organized Junkyard Wars for Inquivesta 9
  
- **Languages Known:** Full working proficiency in English, Hindi, Malayalam
- **Programming Languages and Packages:** Python, Origin and Excel
- **Software:** Adobe Photoshop, Image J
- **Artist**