

Udit Ghosh

3RD YEAR BS-MS STUDENT




PERSONAL DETAILS


Currently in my 3rd year of pursuing 5 year BS-MS Dual Degree Programme at **IISER Kolkata** with **Biological Sciences as Majors** and **Chemical Sciences as Minors**.


TECHNICAL SKILLS

- Programming Languages: **Python, C**
- Technical Software: **Gnuplot, Origin, ImageJ, SnapGene**
- Basic Utilities: **Microsoft Office, Adobe Photoshop, LaTeX**
- Operating Systems: **Windows, Linux**
- Media Designing: **Adobe Illustrator, Autodesk AutoCAD**
- **Present Office Bearer of PIXEL:**
The Photography Club of IISER Kolkata
- **Public speaking**
- Advanced in **English, Hindi, Bengali and Assamese** Language

CONTACT DETAILS

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 [@Udit Ghosh](#)

EDUCATIONAL QUALIFICATIONS

Pragjyotish Senior Secondary School, Guwahati, Assam - 781033, India

CLASS X (Mar 2015 - May 2016)

- CGPA: **10.0** (CBSE)
- Silver medal in International Olympiad of Mathematics - 2016

Maharishi Vidya Mandir Public School - IV, Guwahati, Assam - 781029, India

CLASS XII (Mar 2017 - May 2018)

- **90.2%** (CBSE)
- Distinction in 7th year (final year) for Painting from Bangiya Sangeet Parishad - 2017

Indian Institute of Science Education and Research (IISER) - Kolkata

BS-MS IN BIOLOGICAL SCIENCES (3RD YEAR); Jul 2019 - 2024 (tentative)

- Current CGPA: **9.07**
- Received **Gold medal** and **four nominations** in iGEM 2021

RESEARCH EXPERIENCE

- Summer Project "**Comparison between SARS-CoV-2 infection induced COVID-19 and Mouse Hepatitis**" under Prof. Jayasri Das Sarma, IISER Kolkata, dated from **June 16, 2020 to July 31, 2020**.

- Summer Project "**The iNOS mediated regulation of immune cells at the focus of neuroinflammation**" under Prof. Jayasri Das Sarma, IISER Kolkata, dated from **May 17, 2021 to July 31, 2021**

- A detailed study on the dual role of iNOS during neuronal autoimmunity, and the role of iNOS/Arg1 axis in the reciprocal interaction of microglia and T cells through CD40 receptor and CD40 ligand during neuroinflammation.

~ Online Project "**To map strain-specific mutations of genetic variants of the SARS-CoV-2 virus**" under Prof. Udaykumar Ranga, JNCASR Bangalore, dated from **May 1, 2021 to July 31, 2021**

- My task was to download multiple sequences of the full-length spike protein of the 25 SARS-CoV-2 variant strains and identify the mutations of importance with respect to the biological functions of the protein.

~ Worked as a **Bio-Modeller**, and an **active member of the Human Practices and Wet-Lab team** of Team iGEM IISER Kolkata 2021 **from April, 2021 to Nov, 2021**

- Developing a novel real-time miRNA sensor for early detection of the disease in the milk and also a successive antibiotic-free cure for sub-clinical bovine mastitis disease.

- Performed biofilm assay, cloning of AgrBD system, cloning of DnaseI and designing of DNaseI assay in the wet lab.