

# Adrika Chaudhuri

3RD YEAR UNDERGRAD · IISER KOLKATA

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## EDUCATION

### IISER Kolkata

BS-MS DUAL DEGREE

Cumulative GPA: **8.33** / 10.00

Oct. 2022 -

### South Point High School

AISSE, AISSCE

Cumulative GPA: **10.00** / 10.00

• June. 2022

## EXPERIENCE

### iGEM IISER Kolkata, 2023

BIOMODELLER, HUMAN PRACTICES MEMBER

1st Year

May. 2023 - Nov. 2023

We worked on developing an eco-friendly biocontrol agent to mitigate losses caused by the harmful bacterial pathogen, *Xanthomonas oryzae*, using outer membrane vesicles of *E. coli* to deliver CRISPR antibodies. We also developed a detection kit for the detection of bacterial blight of rice, our target disease, and won a gold medal at the iGEM grand Jamboree in Paris for our project. I am well-versed in various lab techniques like ultracentrifugation, PCR, plasmid isolation, primer designing, and other lab skills. I am also experienced in modelling biological systems.

### IISc, 2024

THEORETICAL ECOLOGY

2nd Year

May. 2024 - July. 2024

As part of my internship here, I did work spanning both drylab and wetlab. The dry lab component involved making a model that examined whether high and low quality males adopt significantly different mating strategies in a polygynous population, and what conditions might be necessary for it. For the wetlab component, I was involved in the parentage analysis of collected samples of *Psammophilus dorsalis*.

### IISER Kolkata, 2024

BEHAVIORAL GENETICS

3rd Year

July. 2024 - current

As part of the set of experiments I am running, I am interested in finding out the circuitry that controls protein-feeding behaviour in mated female *Drosophila*. I have devised experiments that aim to select between candidate hormones as the cause for the feeding behaviour, regulated by octopamine. As a side project, I am also doing experiments on border cell migration on the lab.

## SCHOLARSHIPS

### Kishore Vaigyanik Protsahan Yojana (KVPY-SX)

GOVT. OF INDIA.

2022

July 2022

## SKILLS

**Program Language** Python, Haskell

**Wetlab** *PCR, Confocal Microscopy, FACS, Plasmid Isolation, Parentage analysis, Drosophila genetics and behaviour*

**Languages** English, German(A1), Bengali

**WebDev** Github