

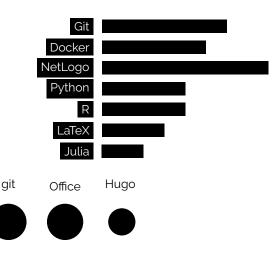
## Researcher





#### WHO AM I?

I am a budding scientist, trained in biology. I have been fortunate to see the world around me as an amalgam of levels of complex systems resulting in emergent behaviour. Using mathematical and computational approach I believe that I will be able to figure out the micro rules governing the different systems.



#### **EXPERIENCE**

3/2020 - Present **Lab Rotation**  Bacterial Ecology & Evolution Lab, Microbiology & Cell Biology @ IISc

Wet Lab Work: An evolutionary experiment in E. coli with two selection pressure - a predator (Myx-

ococcus xanthus) and antibiotic (Rifampicin and Gentamycin)

Dry Lab Work: An Agent Based Model (ABM) of Myxococcus xanthus life cycle was modelled using NetLogo ( Work yet to be published.)

NetLogo / Git / Python / R

NetLogo

08/2020 Mediator

Science Gallery Bengaluru

I was lucky to be part of the first digital exhibition of Science Gallery Bengaluru: PHYTOPIA. It was a wonderful experience doing mediation on a digital platform.

1/2020 - 2/2020

**Lab Rotation** 

Chandra Lab, Biochemistry @ IISc

I made a preliminary model for thyroid hormone synthesis with Ordinary Differential Equations using the software COPASI.

COPASI / Linux

12/2019 - 1/2020 Mediator part time

Science Gallery Bengaluru

As part of the SUBMERGE Exhibition on Water I engaged with the visitors on a daily basis. Throughout the conversations I was able to incite the curiosity and critical thinking of the visitors.

### **EDUCATION**

2019 - Present **Integrated PhD Degree** 

Indian Institute of Science

An integrated research degree on Biological Science gives me the freedom to venture outside my primary training in biology. I am able to use the opportunity to improve my theoretical understanding of the biological complex systems, and realise the formal distinctions of fields blurring away as I understand better.

2016 - 2019 Bachelor's Degree **Bangalore University** 

The course on Biological Sciences enabled me get a bird's eye view of biology and it's related fields. My interest in theory was spiked during my undergrad years.

## **LANGUAGES**

English - proficient Malayalam - native Kannada - rudimentary Tamil - rudimentary Hindi - rudimentary

# **HOBBIES**

I love coding. I find it to be an extension of logical thinking. I only picked up my first language recently. But ever since the theoretical or overall structural similarities and differences of programming languages interests me. I also am very much into fictions. Am critical of what I read and watch.

## **QUALIFIED EXAMS**

CSIR-UGC NET LS - AIR 24 JAM BS - AIR 64 JGEEBILS - Was Selected @ IISER, Pune