

I am a biophysicist with a strong foundation in quantitative and physical approaches in life sciences. In my research, I apply state-of-the-art computational and experimental approaches to understand how single-atom and single-molecule interactions in proteins give rise to their unique mechanical properties.

Education

Arizona State University

Graduate student – Biological Design (since 2023) **CGPA – 4.00**

Fulton Fellowship Award – Ira A. Fulton Schools of Engineering

Indian Institute of Science Education and Research, Mohali

MS in Biological Sciences (2018-2021) **CGPA – 9.3/10**

Institute Fellowship

SIES College of Arts, Science & Commerce, Mumbai

BSc in Biotechnology, Chemistry, and Zoology (2015-2018) **CGPA – 6.89/7**

KET's V.G. Vaze College of Arts, Science and Commerce, Mumbai

High School – Physics, Chemistry, Mathematics, Biology (2013-2015) **74%**

Scientific Meetings & Trainings

- BioPhest 2023 – Poster Presentation – **Best Poster Award**
Arizona State University – Center for Biological Physics
- Biodesign Fusion 2023 – Poster Presentation
Arizona State University – Biodesign Institute
- Frontier Symposium in Biology 2022 – Poster Presentation
IISER Thiruvananthapuram
- India|EMBO Symposium: Engineering meets Evolution (2020)
Selected as a student attendee
- Computational Analysis of Whole Genome Sequence Data (2022)
Heidelberg University & IISER Thiruvananthapuram
- Virtual Comparative Genomics Workshop – Ensemble (2022)
European Bioinformatics Institute

Teaching and Mentoring Experience

- Mentor with the MAP Program – since 2023
([Mentorship Program for PhD applicants from India](#))
- Graduate mentor and committee member: Barrett Thesis Project 2023-24
Student – Frances Faguy (Microbiology) Arizona State University
- Graduate mentor: Laboratory Rotation – 2019
Student – Ananya Natarajan (BS-MS 2018) IISER Mohali
- Mentor to several undergraduates on qualifying National Entrance Exams and PhD Applications in India.

Relevant Coursework

- Microbial genetics
- Host-pathogen interactions
- Principles of evolution
- Biochemistry
- Synthetic Biology
- Network Science
- Biocomputing
- Programming for Biologists

Competitive Entrance Exams

- Indian Institute of Technology Joint Admission Test for MSc in Biotechnology – 2018
Physics, Chemistry, Biology – **All India Rank: 482 out of 4559**
- Indian Institute of Technology Joint Admission Test for MSc in Biological Sciences – 2018
Biology, Chemistry – **All India Rank: 344 out of 7950**
- TIFR Graduate School Admissions Exam for PhD – 2021
Physics, Chemistry, Biology
- TIFR Graduate School Admissions Exam for Integrated-PhD – 2018
Physics, Chemistry, Biology

Outreach

- Volunteer, ASU Open door – 2023
- Volunteer, IISER Mohali Foundation day outreach events for school children – 2018
- Contingent Leader, SIES Operon Biotechnology fest – 2016