

KRISHNA IYER V S

<https://vskrishna1082.github.io> ♦ IISER Pune

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EDUCATION

Indian Institute of Science Education and Research, Pune

BS-MS, Major in Physics

Minor in Biology

August 2020 - Present

CGPA: 8.5

RESEARCH EXPERIENCE

Theoretical Biophysics Working Group

Visiting Student

June 2024 - Present

Universität Göttingen

- Rheology of active Cytoskeletal elements
- Using Cytosim to probe viscoelasticity
- Development of analysis tools for studying viscoelasticity

Computational and Structural Biology (COSPI) Lab

Intern

December 2022 - April 2024

IISER Pune

- Computational study of Liquid Liquid phase separation
- Developing Molecular Dynamics and Monte Carlo simulations
- Phase separation of active, turning particles

Prabal K Maiti (PKM Lab) Lab

Intern

May 2023 - July 2023

IISc Bangalore

- Coarse-grained modelling of α -Synuclein using LAMMPS
- Modelling amyloid fibrils and studying their dynamics in α -Synuclein environment

ACADEMIC EXPERIENCE

Physics: Computational Physics, Quantum Mechanics, Statistical Mechanics, Non-Linear Dynamics, Soft Matter Physics, Condensed Matter Physics, Electrodynamics

Biology: Genetics, Bioinformatics, Ecology, Mathematical and Computational Biology, Biophysics

Mathematics: Graph Theory, Algorithms, Calculus, Linear Algebra, Group Theory, Complex Analysis, Ring Theory

Languages

C++, Python, Bash, Fortran

Tools

Lammps, Gromacs, Cytosim, L^AT_EX, git,
gnuplot, vim, VMD, Cytosim

Graphical Tools

Inkscape, GIMP

CONFERENCES

MASFE, IISER Pune

Participant

2023

IISER Pune

- Participated and volunteered in organizing the MASFE (Macromolecular Assemblies: Structure, Function, and Evolution) conference at IISER Pune.

SCHOLARSHIPS

Kishore Vaigyanik Protsahan Yojana (KVPY) Scholarship
DST INSPIRE Scholarship

2021-Present
2020-2021

NON-ACADEMIC EXPERIENCE

Mimamsa

Design Coordinator

August 2021-May 2022

IISER Pune

- Volunteered as the Design Coordinator for the 2022 edition of Mimamsa (a national level science quiz organized by the students of IISER Pune)

IISER Pune Clubs

Design Coordinator

August 2020-Present

IISER Pune

- Design Coordinator for various clubs in IISER-Pune (Karavaan, Literary Club, Music Club, Quiz Club) during the period at IISER.