# **RAJAVEE SRIVASTAVA**

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# **SUMMARY**

- Computational Biology enthusiast with a varied background in biology including Toxicology, Immunology, Microbiology and Molecular Biology.
- Worked on identification of uncommon epitopes for a stable immune response through MHC1 binding for Covid19 as a part of a 5 week virtual global internship
- Trained 50+ student in the basic skills of Bioinformatics as a part of 3 day hands on workshop conducted during the college techfest CHIASMA '20
- Trained in HLA Crossmatch experiments as a part of Summer training project at Reliance Life Sciences, Mumbai.
- · Self-motivated, problem-solving and collaborative scientist with excellent communication skills
- Seeking opportunities to further enhance my skills in NGS Data analysis and Proteomics.

#### **TECHNICAL SKILLS**

- Proteomics and Vaccine Dev: Molecular docking, Virtual screening of small ligand databases, Protein-protein interactions, Epitope identification, Antigenicity analysis.
- Computational: Programming language (Python)
- **Cell Biology:** Cell culture, Cell assays.
- Microscopy/Imaging: Confocal microscopy, Cell imaging and analysis
- Immunology: ELISA Analysis, Flow Cytometry (FACs) analysis
- Biochemistry: Enzymatic assays
- Molecular biology: Conjugation and Transduction experiments

# RESEARCH EXPERIENCE

HackBio Virtual Internship

Research Intern • Manuscript of the work done is under peer review at Scientific Reports

- Identified 10 unknown epitopes from non-structural proteins of the Coronavirus proteome that were highly antigenic and immunogenic.
- Generated structure of reviewed non structural protein sequences from Uniprot using homology modelling protocols.
- Protein structures have been submitted at Proteopedia

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**Ahmedabad University** 

Semester project

Research student Jan - May 2020

 Worked towards characterization of pharmacophores of Withanone and Withaferin A from Withania somnifera Identification of structurally similar ligands from PubChem database that had better interactions with cancer targets in compar-

#### **EDUCATION**

Masters in Life sciences July 2020 - Present

Ahmedabad University

**Bachelors in Life sciences** CGPA 3.04/4.00

**Ahmedabad University** 

July 2017 - May 2020

Computational and Structural Biology, Bioinformatics, Immunology, Toxicology, Cell Biology, Molecular Biology and Microbiology as core subjects.

#### **Higher Secondary Certificate**

CGPA 3.18/4.00

Aug - Sep 2020

Baroda Lions School

June 2017

Physics, Chemistry, Biology and Computer Science as core subjects.

# **POSITION OF RESPONSIBILITY**

- Feb 2020 Was a trainer for the Life in Bytes workshop at the student organized techfest with participants from pan-india. Explained the basics of Computational Biology including Molecular docking and Homology modelling protocols to 50+ student from different fields of biology.
- August 2019 Core comittee member of The Management Club of Ahmedabad University. Co-ordinated and managed various club events throughout the year. Received the Chairman's recognition award for the best performing student club for that year.

# CONFERENCE PARTICIPATIONS

 Sep 2020- Abstract on Biophysical properties of amino acids from coronavirus proteome accepted at Virtual FISV Symposium on SARS-CoV-2 Biology and COVID-19.

### **SKILLS**

Software Microsoft Excel, Word and PowerPoint, Biovia Discovery Studio, PyMol, Autodock, PyRx.

Languages English: professional proficiency. Hindi: native. Gujarati: conversational.