

# Adnan Raza

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GitHub: Woosflex , Website: woosflex.github.io

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## EDUCATION

**Sharda University**, Greater Noida, India

**B.Sc. (Hons.) Microbiology**, Graduated

2020-2023

Awards: *First division with honours*

**R.S.B.V. Gandhi Nagar**, Delhi, India

**Senior School (Grade 12th)**, passed with 73.4%

2019

**St. Andrews Scots School**, Delhi, India

**High School (Grade 10th)**, excelled with 9.4/10 CGPA

2017

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## RESEARCH EXPERIENCE

**Sharda University, Department of Life Sciences**

***Undergraduate Research Thesis with Prof. Vinod Joshi***

Nov. 2022 – April. 2023

Comparison of Anti-HCV titre and p53 protein among HCV patients

- Extracted whole RNA from blood samples of HCV positive patients.
- Quantified HCV load and determined genotype of virus with RT-PCR.
- Identified impact of infection on p53 expression using PCR.
- Examined the mutation in p53 mRNA by differentiating using Gel Electrophoresis.

**Sharda University, Department of Life Sciences**

***Summer Project with Dr. Annette Angel***

Socio-Economic and COVID-19 transmission intervention: Impact of lockdown measures in India

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## PROJECTS

**AutophiGen: Automate Phylogenetic Analysis**

- Developed bioinformatics tool made in Python to automate phylogenetic analysis workflow as a personal project.
- Implemented libraries such as BioPython, ete3 and APIs of EMBL to perform BLAST, Multi-Sequence Alignment using MUSCLE and create phylogenetic tree using Neighbour-Joining Algorithm.
- Currently working on deploying the tool as a web-app for easy access and GUI-interface.
- Link to the project's GitHub repo: AutophiGen

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## SKILLS

### Technical Skills

- Python
- C
- LaTeX
- R
- Bash, zsh

### Laboratory Skills

- PCR
- Gel Electrophoresis
- ELISA
- Culturing Bacteria

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## LEADERSHIP EXPERIENCE

### Sharda University, Department of Life Sciences

*Organized preparation of Scientific Models during Accreditation Council's visit*

- Streamlined the production of models by students.
- Oversaw financial, management and administrative roles

### Sharda University, Department of Life Sciences

*Elected for the role of Class Representative for consecutive 6 semesters*

- Distribution of study materials and maintenance of cloud storage of class materials
- Designed workflow for easy access to information, form submissions and discussions.

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## PUBLICATIONS

*Submitted:*

Khandelwal, K., **Raza, A.**, Pandit, S., Nidhi, Alghamdi, S., Alqurashi, S.F., Sharaf, S.E.S., Albalawi, T.S., Malatani, D.A.S., Rustagi, S., Khan, Z.S., Malik, S., and KanuPriya. **Role of Metallic Nanoparticles as a potential disease control agent in Agriculture, Biocatalysis and Agricultural Biotechnology, Elsevier Publications**

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## PROFESSIONAL AFFILIATIONS

Member of **Global Initiative Academic Network (GIAN)**  
**IIT Kharagpur, India**

2022 - Present

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## CONFERENCES AND WEBINARS

**Attended:**

<b>Droplet Digital PCR World 2023</b> by Bio-Rad	June 2023
<b>Interdisciplinary Research on Cancer Biology</b> by UPES University	Sep. 2022
<b>E-symposium on Cancer Epigenetics</b> by Jaipur National University	Sep. 2021

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## REFEREES

### Dr. Soumya Pandit

Assistant Professor, Department of Life Sciences  
Sharda School of Basic Sciences and Research  
Sharda University, India

Email:

PhD, IIT Kharagpur; Post Doc. Fellow, BGU Negev,  
Israel

### Dr. Subhashree Ray

Assistant Professor, Department of Life Sciences  
Sharda School of Basic Sciences and Research  
Sharda University, India

Email: subhasree.ray@sharda.ac.in

PhD, CSIR-IGIB; Post Doc. ,Ehwa Womens  
University, University of Seoul, Yeungnam University