



## AMAN SHARMA

New Delhi, India 🏠

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Aman Sharma 🌐

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### EDUCATION

#### **Doctor of Philosophy (Ph.D.) | Indian Institute of Science Education and Research, Pune | 2023-**

I joined IISER Pune for my doctoral research in August 2023. I am working under the guidance of Prof. Thomas Pucadyil at Pucadyil's Lab, Department of Biology.

#### **Master of Science (M.S) | Jawaharlal Nehru Centre for Advanced Scientific Research | 2020-2023**

I worked under the supervision of Prof. Maneesha S. Inamdar for my M.S. thesis titled 'Role of Mitochondrial Proteases in Drosophila blood cell development and immunity' in the Vascular Biology Lab, Molecular Biology, and Genetics Unit.

#### **Bachelor of Science (B.Sc.) | University of Delhi | 2017- 2020**

I got my bachelor's degree in life science with Botany, Zoology, and Chemistry as three major subjects from Acharya Narendra Dev College, University of Delhi after successfully qualifying the requirements with first division.

#### **Intermediate (10+2) | Central Board of Secondary Education | 2016 – 2017**

I completed my schooling at Pragati Public School, Dwarka, affiliated with the Central Board of Secondary Education (CBSE) with a cumulative score percentage of 89.9 %. My subjects included English, Physics, Chemistry, Biology, and Computer Science.



### EXAMINATION QUALIFIED

- GATE Life Science 2023 (AIR 309)
- GATE Biotechnology 2022 (AIR 574)
- South Asian University, SAARC 2020 (AIR 23)
- National Institute of Immunology 2023
- JGEEBILS 2020, 2023
- ACTREC JRF 2023 (AIR 12)
- IIT JAM 2020 (94.4 percentile)
- JNU SCMM 2023 (AIR 3, UR category)



### CONFERENCES/WORKSHOPS ATTENDED

- Certificate course on '**Introduction to Effective Teaching – Learning**' conducted by the academic office, IISER Pune in the month of September 2023.
- **EMBO conference** on "**Molecular and physiological basis of behavioural/cognitive defects in Neurodevelopmental disorders**" from 31st Oct to 3rd Nov 2022 at JNCASR, India. It was hosted by James Clement (Asst. Professor, Neuroscience Unit, JNCASR) along with Ted Abel (Director, Iowa Neuroscience Institute, University of Iowa).
- The **TNQ Distinguished Lectures** in the Life Sciences-2023, Speaker **Dr. Ron Vale** on January 13, 2023, at J N Tata Auditorium, Indian Institute of Science (IISc), Bangalore, Karnataka, India. The talk was about the discovery of motor proteins and their role in cellular homeostasis.
- **Bio-Imaging workshop**, conducted by MBGU bioimaging facility in collaboration with Zeiss, Evident/ Olympus, Biotron Healthcare India, and Bitplane Imaris on 6th, 7th, and 8th February 2023 at Molecular Biology and Genetics Unit, JNCASR. I learned the principles of Confocal

microscopy and multiphoton microscopy with a hands-on demonstration of multiphoton microscope. I already learned image analysis using Imaris and FIJI-ImageJ.

- **In House Symposium 2023, JNCASR.** It's an annual interdisciplinary science meeting to share yearly contribution of JNCASR in the field of science and promote collaboration.
- **MBGU-NSU** Annual work presentation and seminars.



### POSTER/PAPER PUBLICATIONS

- Portion of my work has been a part of poster presented at **International Society of Developmental Biology conference 2022**, Portugal. Poster title '**Mitochondrial AAA+ proteases regulate blood progenitor homeostasis through control of long-range signaling in *Drosophila***'.
- '**Mitochondrial AAA+ proteases AFG3L2 and YME1L regulate *Drosophila* hematopoiesis through ROS-mediated control of signaling pathways. (In preparation)**  
Rajarshi Batabyal, Aman Sharma, Maneesha S. Inamdar.



### LABORATORY SKILLS

- Microscopy (Confocal and Multi-photon)
- Immunofluorescence and imaging
- DNA and RNA isolation
- Primer designing
- PCR and qPCR
- Biostatistical analysis
- Flow Cytometry
- Mouse and *Drosophila* dissection
- Western blotting
- Protein purification
- Transformation and Transfection
- Bioinformatics studies and analysis



### AWARDS AND HONOUR

- Winner at **National Science Fair 2017, Regional Science fair and National Science Exhibition 2018**, hosted by National Science Center, Directorate of education and CBSE respectively.
- Runner up at **Google Science fair 2017**.
- Best speaker award and creative writing prizes from **University of Delhi (2017-2020)**.



### EXPERIENCE

- **Teaching faculty | Pace Biology Institute, New Delhi | 2020 – 2022**

I taught animal-plant physiology, and molecular analytical techniques to undergraduate students preparing for national-level examinations like IIT JAM, TIFR-JGEEBILS, GAT B, etc.

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