

BY HARSHA SHARMA

I am delighted to have the opportunity to introduce myself as a part of the education field. Equipped with a good academic background and a profound enthusiasm for advancing knowledge in Microbiology, I am excited to share a brief overview of my research journey. I hold a Bachelor of Science in Botany, Zoology, and Microbiology, a Master of Science in Microbiology, and a Ph.D. in Microbiology among other qualifications. Presently, I have the position of Assistant Professor of Microbiology and I am dedicated to providing important perspectives to the ever-evolving field of education.

I am enthusiastic about making a valuable contribution to the dynamic academic community. I am enthusiastic about instructing courses and participating in cooperative research endeavors with my colleagues at the faculty.

Attached is my curriculum vitae, which offers comprehensive information on my academic credentials, research achievements, and teaching expertise. Based on my multidisciplinary approach, commitment to student achievement, and enthusiasm for research make me a strong fit for the Assistant Professor position.

I would welcome the opportunity to discuss how my skills and expertise align with the needs and how I can contribute to the continued success. I am ready to work towards increasing the Institute's resource envelope through lobbying, fundraising and resource mobilization to improve staff welfare, teaching and learning, research and innovations, knowledge transfer partnerships and networking among others. I am an eminent Teacher in my discipline.



Harsha Sharma

Assistant Professor

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Ph.D., M.Sc. B.Sc. in Microbiology

No. of Patent Published: 16

No. of Patent Grant: 02 (In process)

Book Published: 05 Published & 01- In progress

15 Research & Review Papers (SCI, Scopus Indexed, UGC CARE, and Peer Reviewed Referred Journal)

DETAILS

12/01/1995
Roorkee

Nationality
Indian

PROFILE

- Dedicated and experienced as an Assistant Professor in the Faculty of Science and Paramedical.
- Knowledgeable and experienced in various educational philosophies, which best promote the overall experience of a student.
- A committed faculty member, passionate about further enhancing an institution's educational offerings.

EMPLOYMENT HISTORY

SKILLS

Time Management

Problem Solving

Decision Making

Leadership Skills

Adaptability

Computer Skills

Served as an Assistant Professor of Microbiology.

Working experience as a member:

- Assistant Director Research MHU
- Member of the Board of Academic Council, Motherhood University.
- Member of the Board of Examination, Motherhood University.
- Departmental coordinator of Alumni cell.
- Member Secretary of the Board of Faculty.
- Member of the Moderation Committee of the Exam Cell of the University Campus.
- Guiding 04 Ph.D. Scholar.
- To take theory as well as practical classes with the best quality.
- Guiding M.Sc. and B.Sc. Students for their project work.
- Timetable in charge
- Responsible for improvement in Academics Research of the University.
- Motivating faculty members to write good-quality research papers & books will focus to file more patents for the students & faculties.
- Will focus to get more funds from Various Agencies (UGC, DST, STARTUP, and State Govt. etc.)

EDUCATION & QUALIFICATION

Ph.D. in Microbiology	To study <i>pseudomonas fluorescens</i> and organic matter as a biofertilizer on chili and brinjal's growth, yield, and quality.	Completed in the year 2021
M.Sc. (Microbiology)	Pharmaceutical water sampling	Completed in the year 2017
B.Sc. (Botany, Zoology, Microbiology)		Completed in the year 2015

Ph.D. Guide: Prof. (Dr.) Kalpana Sharma

- **Research and Review Article Authored:**
15 above research and review articles published in national and international journals (SCI, Scopus Indexed, UGC CARE, and Peer Reviewed Referred Journal).
- **Published Books:**
 - ❖ "A Text Book of Bio-fertilizer" in 2022
 - ❖ "Modern Agricultural Practices" in 2022

- ❖ "Agricultural Microbiology in 2022"
 - ❖ "Organic Farming" in 2021
 - ❖ "Laboratory Manual Book of Microbiology" in 2019
- **Patents published: 16**
 - **No. of Patent grant: 02 (In process)**
 - **Honour & Awards:**
 - ❖ Innovative Research Award – 2023, 6th Plantica Plant Research Award, Dehradun, Uttarakhand.
 - ❖ Research Award – 2022, 5th Plantica Plant Research Award, Dehradun, Uttarakhand.
 - ❖ Emerging Scientist Award – 2021, In the International Scientist Awards on Engineering, Science and Medicine.
 - ❖ Young Research Fellow Award - 2020 conferred at the 'International Conference of Advances & Innovations in Agriculture & Allied Sciences' held at Jawaharlal Nehru University, Convention Centre, New Delhi, from 31st January-01st February 2020, organized by Ek Nayi Rah Foundation, Etawah, UP, India.
 - ❖ Best Teacher of the Year award was awarded in the Motherhood University, Roorkee.
 - ❖ Certificate of Appreciation for valuable services to every year organizes Blood Donation Camp.
 - ❖ Certificate of Appreciation for valuable suggestions in Shiksha Navachar, ZIEE
 - Research completed in pharmaceutical water sampling, Organic Farming, PGPR, Bio-fertilizer, and *Pseudomonas fluorescens*.

Experience as examiner/paper setter:

- 1) Worked as Practical / Theory Examiner of (B. Sc. & M. Sc) Gurukul Kangari, Haridwar, 2019.
- 2) Worked as Paper Setter of B. Sc. Gurukul Kangari, Haridwar, 2019.

Experience in curriculum design:

- **Designed the syllabus of M.Sc. Microbiology, MHU, 2022.**

LIST OF PUBLICATIONS OF RESEARCH PAPER AND ARTICLES:

“Published /Accepted in International Journals/Scopus/SCI/NAAS/UGC and Peer reviewed”:

- ❖ Narendra Sharma, Harsha Sharma, Srikumar Chakravarthi, M Vijay Sekhar Babu, Brij Kishore Tiwari, Mohamed J Saadh, (2023) Agriwealth: Iot Based Farming System in India, Journal of survey in fisheries sciences, Vol. 10 No. 2S (2023): Special Issue 2
- ❖ Harsha Sharma, Narendra Sharma, Santiago Otero-Potosi, Emperatriz Fuertes-Narváez, RAJESH RAMACHANDRAN, Dinesh Yadav, (2023) SOCIOLOGY OF HIGHER EDUCATION IMPACT, CHALLENGES AND CONTRIBUTIONS, AND THEIR CONTEXTS, European chemical bulletin, Section A-Research paper, ISSN 2063-5346.
- ❖ Narendra Sharma, Harsha Sharma, Rupam Mukherjee, Yaser Qureshi, (2023) ENVIRONMENTAL JUSTICE AND THE DISPROPORTIONATE IMPACTS OF POLLUTION ON VULNERABLE COMMUNITIES, European Chemical Bulletin.

- ❖ Harsha Sharma, Mozammel Haque, Anita Singh, Tanmay Ghosh (2022), Maize sheath blight disease and its biological control, e-ISSN 2320 –7876 www.ijfans.org, Vol.1, S Iss.1, 2022
- ❖ Harsha Sharma¹, Mohd Anul Haq², Ashok Kumar Koshariya³, Anil Kumar⁴, Sandeep Rout⁵, and Karthikeyan Kaliyaperumal⁶ (2022) “Pseudomonas fluorescens” as an Antagonist to Control Okra Root Rotting Fungi Disease in Plants, Hindawi Journal of Food Quality Volume 2022, Article ID 5608543, 8 pages <https://doi.org/10.1155/2022/5608543>
- ❖ ¹Harsha Sharma, ²Mohd Anul Haq, ³Ashok Kumar Koshariya, ⁴Anurag Shrivastava, ⁵Sandeep Rout, ⁶Mohammad Shabaz (2021) To the study of isolation and identification of bacillus species in a sample of sputum and pus and their susceptibility reaction to antibiotics. Natural Volatiles and Essential Oils, Scopus, Publisher: Badebio Biotechnology Ltd, E-ISSN:2148-9637
- ❖ Harsha Sharma and Avadhesh Kumar Koshal. “The Influence of Rhizobacteria that Promotes Growth of Plants on the Nutritional Acquisition Process”. Acta Scientific Agriculture 6.1 (2022): 08-10.
- ❖ Sharma, Harsha, Kaushal, Avadhesh, Pal, Sanchita (2021), Influences of Plant Growth Promoting Rhizobacteria, Published in an International Conference.
- ❖ Kaushal, Avadhesh, Sharma, Harsha, (2021), Role of Bioassay, Published in International Conference.
- ❖ Harsha Sharma, Kalpana Sharma, (2020), Study to effect of *pseudomonas fluorescence* and organic matter on Brinjal as a bio-fertilizer, Journal of Plant Development Sciences. (Impact Factor 5.87)
- ❖ Sharma, Harsha, Kaushal, Avadhesh, (2020). Plant growth promoting *Pseudomonas* helpful for vegetables, a paper published in International Conference on Advance and Innovative in Agriculture and Allied Sciences, 31st January-02nd January 2020.
- ❖ Sharma, Harsha, (2020). Bacterial Biofertilizer for Sustainable Plant Growth, a paper published in National Webinar on Zero Budget Natural Farming 6-7th June 2020.
- ❖ Sharma, Harsha (2019) Nature of bacteria, Bacteria good and bad. International Journal of Recent Scientific Research Vol. 10, Issue, 02(C), pp. 30841- 30844, ISSN:0976-3031, (Impact Factor 5.87)
- ❖ Sharma, Harsha, Sharma, Kalpana (2019) Characterization and Isolation of *Pseudomonas fluorescens* from Rhizospheric soil samples, a paper published in Association Microbiologist of India organized an International Seminar at Central University of Haryana, Mahendragarh, 14th-16th November 2019.
- ❖ Harsha Sharma, Kalpana Sharma and Avadhesh Kumar Koshal, (2019), Role of Microorganism of Eco-Friendly Agriculture, Journal of Plant Development Sciences. (Impact Factor 4.57)
- ❖ Kaushal, Avadhesh, Sharma, Harsha, (2019) Modernization of Agricultural Development in India, paper published in National Conference on ICIESSED- 20-21 April 2019.
- ❖ Sharma, Harsha, Kaushal, Avadhesh (2019). Role of Microorganisms to Improve Agriculture Science, paper published in National Conference on ICIESSED- 20-21 April, 2019.
- ❖ Sharma, Harsha, Aayurvedic Chikitsa Padhti Me Hindi Shabdawali Ka Anupryog, paper published in National Seminar in Motherhood University, Roorkee on 10th-11th February, 2018.

SEMINARS/CONFERENCES ATTENDED AND ORGANIZED:

- ❖ Organized Faculty Development Program at Motherhood University, Roorkee sponsored by USERC, Dehradun, 05 February to 10 February, 2024.

- ❖ Paper presentation at an International Conference on Microbial Bioprospecting towards sustainable development goals held on 24th and 25th November 2023 organized by the Association Microbiologist of India-LPU Unit and Society Chemical Synthetic Biology at Lovely Professional University
- ❖ Organizing secretary, National Conference on Yoga therapy, April 27-28, 2023, Motherhood University, Roorkee.
- ❖ Organizing secretary, National Conference on Agriculture, applied and life science; current research 18-19 November 2022
- ❖ International Conference of Advances & Innovations in Agriculture & Allied Sciences held at Jawaharlal Nehru University, Convention Centre, New Delhi, from 31st January – 01st February 2020, organized by EkNayi Rah Foundation, Etawah, UP, India.
- ❖ Attended International Conference at Central University of Haryana, Mahendragarh, Haryana from 14 Nov-16 Nov 2019.
- ❖ Attended National Conference on Identification, Convergence, and Implementation & Extension of Researchable Issues for Sustainable Development at Sardar Vallabhbhai Patel University of Agriculture & Technology Meerut, 20th-21th April 2019.
- ❖ Attended the National Conference on New Perspectives in Paramedical and Allied Health Sciences at Uttaranchal (P.G.) College of Bio-Medical Sciences and Hospital, Dehradun on 5th-6th April 2019.
- ❖ Attended Workshop on Basics of Research Methodology & writing research papers at Motherhood University, Roorkee on 30th March 2019.
- ❖ Attended National Workshop on Biological Risk Management organized at Lovely Professional University, Punjab on 15th-16th March 2019.
- ❖ Attended the National Seminar on Peace – Education at Motherhood University, Roorkee, on 24th November 2018.
- ❖ Attended National Seminar on Scientific and Technical Terminology at Motherhood University, Roorkee on 10th-11th February 2018.

DIPLOMA/TRAINING/INTERNSHIPS

1. Diploma in Advance Development in Information Technology.
2. 06 months Internship in Jubilant Generics, LTD, Roorkee.
3. 06 months Internship in Industrial Microbiology, Lucknow.

AN ACTIVE MEMBERSHIP

Working Experience as a Member of Various Organizations:

- ❖ Reviewed papers in Elsevier journals, Scopus, and peer-reviewed journals.
- ❖ Life Member National Council for Teacher Education, India.
- ❖ Life Member, Association Microbiologist of India.
- ❖ Life member of PLANTICA, Journal of Plant Science, Dehradun.
- ❖ Life Member, New Age Mobilization, Meerut.
- ❖ Review Member, Journal of Emerging & Technology Informative Research.
- ❖ Life Member, Institute of Scholars (INSc).

Dr. Harsha Sharma