# **CURRICULUM VITAE**

## VINITA SHARMA, Ph.D., FISQEM

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## **OBJECTIVE**

To work and associate with an organization have challenging and creative environment, where learning and personal practical skills are put together with hard work that results in growth at personal, organizational and national level. To being associate where my learning and skills can be put to maximum use to achieve goals, which will help me to explore myself, realize my potential and constantly upgrade my knowledge, skills and make a difference in whatever, I do.

### **MY CORE COMPETENCIES**

- Sound academic record with In-depth knowledge of the subject.
- Innovative research and teaching attitude.
- Possess leadership skills.
- Command over the core research subject: Faunal Biodiversity and Wildlife Conservation with special reference to their interaction with surroundings.
- Good presentation, communication and interpersonal skills.

### POST-DOCTORAL EXPERIENCE

Senior Research Biologist (SRB) and Senior Research Fellow (SRF) at Wildlife Forensic and Conservation Genetics Cell, Wildlife Institute of India, Dehradun, Uttarakhand, India.

- As per work profile dealing with wildlife offence cases for generating a scientific opinion on species identification from wildlife offence case samples following morphometric approach.
- Undertake research and development work to develop and standardize technique for dealing wildlife offence cases (biological material) based upon morphometric analysis.
- Provided inputs in sensitizing issues of wildlife forensics and conservation biology among various enforcement agencies, college and school students though crime scene examination, training, workshops and classes.

# Major contribution in the field of wildlife forensics:

From August, 2013 till July, 2016:

I had provided major contribution in dealing wildlife offence cases for generating scientific opinion on species identification following morphometric approach.

Have expertise to deal with variety of biological samples common in wildlife trade:

S.No.	Type of biological sample	Technique used
1.	Wildlife articles containing hair including of complete skin/hides, rugs, fur-coat, Shahtoosh shawls, paint brushes, Musk-pods	Macroscopic and microscopic hair characterization- Cuticular scale cast imprinting technique. Comparison of medulla pattern, cross-section and cuticles imprints across the species.
2.	Ivory products and other ivory substitutes, Rhino-horn and their substitutes	Comparative morphological and morphometric Approach
3.	Genuine vs fake wildlife articles	Comparison of genuine and fake articles following diverse morphological and morphometric approach accordingly

Ongoing research and future strategies:

Work upon developing species specific standard operating protocols (SOPs) for animal parts common in wildlife trade through-out world.

### **Major achievements:**

- 1. Developed a standard protocol for characterization of wild bovids on the basis of their horn characteristics using morphometric approach.
- 2. Developed strategies for identification and distinguish genuine and fake felid claw was developed using morphometric and x-ray radiographic analysis.

### **Future plans:**

- 1. To develop standard protocol for identification of complete as well as bone parts of those species which are more likely in wildlife trade.
- 2. Introduce geometric morphometrics in developing protocols for characterization of different biological parts.
- 3. To develop protocol for bird species identification on the basis of feather characteristics following geometric morphometric approach.
- 4. Identifying wildlife trade routes using GIS approaches.

## RESEARCH EXPERIENCE, RESEARCH INTEREST AND FUTURE VISION

Have research experience of 12+ years (including of Ph.D. and there after) in the field of Faunal Biodiversity and Conservation aspects and involved in varied research activities till date. Worked as Volunteer at Freshwater Biology Regional Centre, Zoological Survey of India, Hyderabad-500048, Andhra Pradesh, India (Taxonomic identification of fresh water species)

## Other interest beyond the current work profile: Conducting research and teaching, as well.

- Have keen interest in varied field of Life Sciences with especial concern to research activities in the field of
  exploring Faunal Biodiversity, Taxonomical studies, Conservation genetics, ecology and biology of the
  same, species interaction and their Conservation issues, wildlife forensics, species characterization on the
  basis of morphometric based techniques.
- Understanding evolutionary biology, species diversity, distributional trends and current status in order to formulate appropriative conservation measures.

# **Protected Area Visited:**

Rajasthan: Sajjangarh WLS (Wildlife Sanctuary), Kumbhalgarh WLS, Jaisamand WLS,

Sitamata WLS, Bagh-darrah Nature Park, Ranthambore NP (National Park), Keola

Deo NP

Gujarat: Gir NP

Uttarakhand: Raja Ji NP, Gangotri NP

Himachal Pradesh: Pin Valley NP, Great Himalayan NP, Kibber WLS

Jammu and Kashmir Gharana Wetland Reserve

**Research projects:** 

Project completed: "HORNID – An efficient digital on-spot decision tool to combat wildlife

trafficking of wild bovid horns: Forensic implications (Minor Research

Project), Central University of Jammu

Ongoing project: "PRI (Primary Reference Image) based geo-referenced Biodiversity Assessment,

Documentation and conservation plan of wild flora and fauna of Kishtwar High Altitude National Park" [NDF/KHANP/2021/01] - Study and documentation of assessment and mitigation of human-wild animal conflict in and around

KHANP (2022 onwards)

Project guided DST sponsored Student Project reference no. F.7(7)वि.इ./अनु0 ,वं वि0/,सण्पी./

**2011/7375 dated 22/03/2012** entitled "Assessment of Avifaunal Diversity of Jhunjhunu, District Rajasthan (including migratory species) in reference to their

Conservation Perspective. (2011-2012).

# **TECHNIQUES ACQUAINTED**

- Both laboratories as well as field based techniques (Protected Areas/Wildlife Sanctuaries): Cuticular Scale Cast Imprinting Technique for identification of mammalian species and feeding ecology of Carnivores, varied ecological methods for population studies, behavior and conservation.
- Animal taxonomy: Identification of faunal species (macroscopic and microscopic characteristics). Wildlife forensics: Identification of wildlife parts on the basis of morphometric characteristics.
- Limnological studies: Identification of freshwater and marine fishes, Quantitative and Qualitative studies of Plankton (Zooplankton), Water and Air Quality monitoring.
- Ecological and ethological studies: Transect studies, Point Count Method, Habitat analysis, varied ecological
  methods used in population studies-pugmark analysis, behavior ecology and conservation issues and
  assessment of biodiversity.
- Molecular and Phylogenetic studies: DNA isolation, ELISA, PCR, FASTA, BLAST
- Animal Tissue Culture: Development of Heart Cells from Embryonic Stem Cell of Swiss albino mice.

# **EDUCATION QUALIFICATIONS**

Examination	Board/	Subject Group / Specialization	Year	Division
Degree	University			(with %age)
Ph.D.	MLSU, Udaipur	Zoology - Wildlife and Biodiversity Conservation: "Study	2008	-
		of Mammalian Diversity of Sajjangarh Wildlife Sanctuary"		
SLET	RPSC, Ajmer,	Life Sciences (UGC accredited)	2005	Qualified
	Rajasthan			
M.Sc.	MLSU, Udaipur	Zoology	2003	I (69.25%)
B.Sc.	MLSU, Udaipur	Science Group Chemistry-Botany-Zoology	2001	I (63.55%)
Sr. Secondary	RBSE, Ajmer	Science Group Physics-Chemistry-Biology	1998	II (56.77%)
Secondary	RBSE, Ajmer	All (with distinction in - Mathematics, English & Sanskrit)	1996	I (70.72%)

# OTHER QUALIFICATIONS/COURSES

- Certificate Course in MS-Word with A+ Grade (2003).
- Certificate online non-credit course on Introduction to Forensic Science authorized by Nanyang Technological University, Singapore offered through Coursera (2014).

## MEMBER OF EDITORIAL BOARD/ REVIEWER

- Reviewer Biodiversity and Conservation; PeerJ; Current Science; Pearson Education Ltd.
- Editorial Board: Life Science Leaflets Journal

### TEACHING EXPERIENCE

- Current- Assistant professor, Department of Zoology Central University of Jammu (2016 onwards)
- **Visiting Faculty/Ph.D. Guide:** Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu, Rajasthan (From March, 2011 till 2019).

## **Under Graduate Level: (07 years)**

- **Two years** at Department of Zoology, University College of Science, Mohanlal Sukhadia University, Udaipur as Guest Faculty (Academic session 2005-2006 and 2006-2007)
- Two years as Lecturer in Department of Zoology, Seth Motilal Shikshakendra Mahavidhyalaya, Jhunjhunu, Rajasthan. (Academic session 2007-2008 and 2008-2009)
- Three years as Lecturer in Department of Zoology, Seth Motilal P.G. College, Jhunjhunu, Rajasthan. (Academic session 2009-2010, 2010-2011 and 2011-2012).

## Post Graduate Level: (05 years)

• Five years at Department of Zoology, Seth Motilal P.G. College, Jhunjhunu (Academic sessions 2007-2008, 2008-2009, 2009-2010, 2010-2011 and 2011-2012).

#### Nature of work

- 1. Teaching: Undergraduate and Post graduate student.
- 2. Mentor: Post graduate students of Zoology and Environmental Science for their short term projects especially related to different aspects of Environmental Sciences.
- 3. Administrative work assigned during tenure.
- 4. Research: Assessment of Faunal diversity of the area and conservation issues.
- 5. Teaching: Undergraduate and Post graduate student.

# Ph.D. supervising: 04 Registered Research Scholars

- 1. Ms. Tundup Gyalpo: Mammalian diversity and prey predator relationship of large carnivores of Zanskar Valley, UT Ladakh (ongoing)
- 2. Ms. Nitika Mehra: Feeding ecology of large mammalian carnivores of District Kangra, Himachal Pradesh (ongoing)
- 3. Ms. Shubani Kumari: Foot-and-Mouth disease transmission dynamics among domestic-wildlife interfaces in India
- 4. Mr. Ashutosh Verma: Completed Course work, waiting for result.

## PAPERS TAUGHT AT UNDERGRADUATE AND POST GRADUATE LEVEL

#### At Under Graduate Level:

- 1. Diversity of Animals and Evolution
- 2. Immunology, Microbiology and Biotechnology
- 3. Structure and Functions of Chordate Types
- 4. Ecology and Environmental Biology
- 5. Applied Zoology, Ethology and Biostatistics

#### **At Post Graduate Level:**

- 1. M.Sc. Zoology Previous
  - a. Biosystematics and Taxonomy
  - b. Quantitative Biology and Population Genetics
- 2. M.Sc. Zoology Final Special Paper Environmental Biology
  - a. Environmental Science, Ecological Principle, Wildlife and Conservation Biology
  - b. Ecotoxicology, Environmental Microbiology and Biotechnology

## OTHERS ACTIVITIES AND CONTRIBUTIONS

- Member of the different committee at College level such as Girls welfare/Women atrocity (2007-08 to 2011-12), Research committee (2008-09), Science association/activity (2010-11), Press committee (2011-12).
   Editorial Board of College Annual Magazine, Team member of Souvenir and Proceedings of National Seminars and Conferences, Repertoire,
- Report writing- UGC Seminar reports, Reports for Department of Forests.
- Reviewer- Pearson Education Ltd.
- Resource person for Department of Forests in their different activities like Eco-trekking, annual wild animal
  census.

## PROFESSIONAL / ACADEMIC MEMBERSHIPS

- 1. Life Member of the Indian Science Congress Association
- 2. IUCN-CEM (The Commission on Ecosystem Management)
- 3. IUCN-Species Survival Commission ISSG
- 4. Fellow of The Society of Earth Scientists (SES), India
- 5. Fellow of International Safety Quality Environment Management Association (ISQEM), London, UK
- 6. Snow Leopard Network
- 7. Bombay Natural History Society (BNHS)
- 8. International Society of Zoological Sciences (ISZS)
- 9. Indian Polar Research Network (IPRN)
- 10. Eco-Ethics International Union EEIU

- 11. Society for Research in Ecology and Environment (SREE), Bharatpur
- 12. Rajasthan Zoologists Group
- 13. Ramsar Forum
- 14. CAWST Centre for Affordable Water & Sanitation Technology, Canada
- 15. BioNET-INTERNATIONAL Secretariat, United Kingdom

### **SUMMARY OF THESIS**

Thesis title: Study of Mammalian Diversity of Sajjangarh Wildlife Sanctuary (2008)

Research Guide: Dr. Chhaya Bhatnagar

Assistant Professor, Department of Zoology, University College of Science,

Mohanlal Sukhadia University, Udaipur.

Honorary Guide: Dr. Satish Kumar Sharma Assistant Conservator of Forest, Department of Forests,

Udaipur, Govt. of Rajasthan.

Research area is related to Biodiversity, Wildlife Conservation and Management Issues.

Faunal wealth of any geographical area is of immense importance because they play an important role in maintaining ecological balance. It is well known that the resources for the conservation are always limited. Thus to maximize the benefits of any action it is the basic need to focus on the highest conservation priorities. Monitoring and mapping of biological resources is a major concern from the conservation perspective, since the depletion of biodiversity is an irreversible change. The conservation importance of an area is typically determined by assessing its biodiversity the basic unit of which is species.

Sajjangarh Wildlife Sanctuary is the smallest wildlife sanctuary of the largest state of the country. It covers only 5.190 km² area and situated atop the Bansdara Hill in the most fragile ecosystem of Aravallis in the west of Udaipur. Once there was a time when this Bansdara Hill was having dense vegetation and thick forest cover and was rich in wildlife and natural resources and was used by the erstwhile Maharanas as 'Shikargah' (hunting ground). Unfortunately, the over exploitation and non-judicious harnessing of biological and non-biological resources of the Aravallis, in the name of rapid development much beyond the sustainable limits, has left the Bansdara Hills in a much precarious condition. Prior to the year 1986, the wildlife of the area was critically destructed. It was observed that the area was drastically deprived off of any vegetation and wildlife. Later by realizing its strategic location and importance from aesthetical, environmental and ecological point of view, this area was elevated to the status of wildlife sanctuary in 1987. Since then, effective measures for the protection coupled with scientific management have resulted in the re-establishment of the past glory of the area to some extent.

Mammalian species diversity of SWLS was assessed using various direct and indirect evidences and in order to formulate steps to undertaken for improvement of habitat of these species, the habitat preference of each species on the basis of frequency distribution was analyzed. Cuticular scale cast imprinting technique, pugmark analysis, morphometric analysis of predator and prey fecal remain was made. Conservation status of each mammalian species at local level was identified. Impact of ecotourism practices on wildlife was also assessed and the major problem faced by the species in the area was determined. On the basis of which plausible scientific measures were suggested for the better conservation of species and management of the study area. It was observed that although the geographical area of the sanctuary is very less but it is home to a total of 36 species of mammals belong to eight orders of the Classs Mammalia viz. Rodentia (11 Species), Carnivora (10 Species), Chiroptera (07 Species), Artiodactyla (04 Species), Primata (01 Species), Pholidota (01 Species), Lagomorpha (01 Species) and Insectivora (01 Species). The whole study area was divided into 10 Zones and distribution of mammalian species was studied. It was observed that all 36 species of mammals found in SWLS falls under any of the threat category of IUCN. A total of 29 species of mammals falls under any of the Schedule of Wildlife (Protection) Act, 1972; and 12 species in either Appentix of CITES. Amongst which Schedule I species are Panthera pardus, Prionailurus rubiginosa and Manis crassicaudata. Rusty spotted cat is the smallest cat species of the world which exist in SWLS. It was concluded that although SWLS is the smallest sanctuary of the state but it exhibit diversified habitat and have potential to harbor much more diversity. Due to it strategic location there is a vast scope of ecotourism development and learning. It was strictly suggested that if the corridors will be well maintained then the number of mammals and other species can be increased. If proper scientific measures should be undertaken, it will play as a role model for development of other protected areas of the state and country as well. The sanctuary has the potential to support much more species.

## **PUBLICATIONS**

- 1. Vipin, Ashutosh Singh, Vinita Sharma, Narinder Kumar Tripathi, Rajnikant Dixit, Bhim Singh, Chandra Prakash Sharma, Sumit G. Gandhi, Dhananjai Mohan, Sandeep Kumar Gupta (2022). Avian Haemosporidian (*Plasmodium* and *Haemoproteus*) Status in Two Bird Groups (Old-World Flycatchers and Thrushes) of India and Their Phylogenetic Relationships with Other Lineages of the World. Acta Parasitologica. https://doi.org/10.1007/s11686-022-00626-1 Impact Factor 1.5.
- 2. Vipin, Vinita Sharma, Chandra Prakash Sharma, Surendra Prakash Goyal, Heather Stevens, Sandeep Kumar Gupta (2022): A pioneering method to identify bovine horn trophy: A combined morphometric and DNA-based approach in wildlife forensics. Forensic Science International: Animals and Environments. ISSN 2666-9374 100056 https://doi.org/10.1016/j.fsiae.2022.100056
- 3. Vipin, Tirupathi, Keshav, Vinita Sharma, Ajay Gaur (2022). Kleptoparasitic interaction between Snow leopard and Red fox suggested by circumstantial evidence in Pin Valley National Park. Himachal Pradesh. India. Journal of **Threatened** Taxa, Taxa). Journal of Threatened 14(10) 21928-2193. 0974-7907 https://doi.org/10.11609/jott.7793.14.10.21928-21935
- 4. Vipin, Chandra Prakash Sharma, **Vinita Sharma**, Surendra Prakash Goyal and Heather Stevens, Sandeep Kumar Gupta (2022). Age estimation of Tiger *Panthera tigris* (Linnaeus, 1758) and Lion *Panthera leo* (Linnaeus, 1758) (Mammalia: Carnivora: Felidae): applicability of cementum annuli analysis method. *Journal of Threatened Taxa*. <a href="https://doi.org/10.11609/jott.7727.14.9.21805-21810">https://doi.org/10.11609/jott.7727.14.9.21805-21810</a>
- Pragatheesh, A., Sharma, V; Sharma, C.P. and H.V. Girisha, H.V. (2022): Operation Soft Gold –
   Integration of Cyber Intelligence in curbing Illegal Shahtoosh Trade in India. Forensic Science
   International: Animals and Environments. Volume 2, 100048.
   https://doi.org/10.1016/j.fsiae.2022.100048
- 6. Vipin, S.K. Gupta, C.P. Sharma and **V. Sharma** (2021): First record of an albino Five-striped Palm Squirrel from Dehradun, Uttarakhand, India. Small Mammals Mail # 431, In: Zoo's Print 36 (1):03-04. https://zoosprint.zooreach.org/index.php/zp/article/view/7171
- 7. Vipin, **Vinita Sharma**, Sandeep K Gupta, Chandra P Sharma, Kalyan sundaram Sankar and Surendra P Goyal (2018). Development of a fast and low-cost age determination method in Spotted deer, *Axis axis. Folia Zoologica* 67 (3–4): 186–197. DOI: 10.25225/fozo.v67.i3-4.a9. Impact Factor 0.594 **ISSN:** 0139-7893 https://doi.org/10.25225/fozo.v67.i3-4.a9.2018
- 8. Chandra Prakash Sharma, Ajit Kumar, **Vipin**, Vinita Sharma, Bhim Singh, Gandla Chethan Kumar, Sandeep Kumar Gupta (2018). Online selling of wildlife part with spurious name: a serious challenge for wildlife crime enforcement International Journal of Legal Medicine.*h*.. https://doi.org/10.1007/s00414-018-1795-7. **Impact Factor 2.686** ISSN: 0937-9827
- 9. Vipin, Vinita Sharma and Sandeep Kumar Gupta (2017): Molecular identification of victim species and its sex from the ash: a case of burning alive leopard (*Panthera pardus*). International Journal of Legal Medicine. First Online: 06 June 2017. DOI: 10.1007/s00414-017-1619-1 (<a href="http://www.ugc.ac.in/journallist/ugc\_admin\_journal\_report.aspx?eid=23040">http://www.ugc.ac.in/journallist/ugc\_admin\_journal\_report.aspx?eid=23040</a>) Impact Factor: 2.686
- 10. Vinita Sharma, Mohd. Raza, Khursheed Ahmed, Parag Nigam, Anjara Anjum Khan, Chandra Prakash Sharma, Vipin Sharma and Surendra Prakash Goyal (2016): Opportunistic occurrence, significance and conservation implications of Tricho-morphometrics: Large wild herbivores of Chang Chenmo Valley, Ladakh, India. *International Journal of Advanced Research*. Vol.4, Issue 12. 980-988. (<a href="http://www.ugc.ac.in/journallist/ugc\_admin\_journal\_report.aspx?eid=47231">http://www.ugc.ac.in/journallist/ugc\_admin\_journal\_report.aspx?eid=47231</a>) Impact Factor: 7.08 ISSN 2320-5407
- 11. Vipin, **Vinita Sharma** and Chandra Prakash Sharma (2016): Identification of Substitute Ivory Product in Illegal Wildlife Trade using Morphological and DNA based analysis in Wildlife Forensics in India. *International Journal of Allied Practice, Research and Review.* Vol. III, Issue IX. 01-08. <a href="http://ijaprr.com/download/issue/Volume III/Issue IX/129">http://ijaprr.com/download/issue/Volume III/Issue IX/129</a> Volume III Issue IX 01-

- <u>08\_Vipin,\_Vinita.pdf</u> (<a href="http://www.ugc.ac.in/journallist/ugc admin\_journal\_report.aspx?eid=44557">http://www.ugc.ac.in/journallist/ugc admin\_journal\_report.aspx?eid=44557</a>)
  Impact Factor: **4.147** ISSN MUNBER 2350-1294
- 12. Vipin, Vinita Sharma and Mukesh (2016): A Novel Model Approach for Detecting Wild Animals through Blood Fed Mosquitoes: Scope in Indirect Wildlife Sampling and Wildlife Forensics. *International Journal of Allied Practice, Research and Review.* Vol. III, Issue VIII. 01-08. <a href="http://ijaprr.com/download/issue/Volume\_III/Issue\_VIII/128\_Volume\_III\_Issue\_VIII\_01-08\_Vipin\_Vinita.pdf">http://ijaprr.com/download/issue/Volume\_III/Issue\_VIII/128\_Volume\_III\_Issue\_VIII\_01-08\_Vipin\_Vinita.pdf</a> (<a href="http://www.ugc.ac.in/journallist/ugc admin\_journal\_report.aspx?eid=44557">http://www.ugc.ac.in/journallist/ugc admin\_journal\_report.aspx?eid=44557</a>) Impact Factor: 4.147 ISSN MUNBER 2350-1294
- 13. Vipin, **Vinita Sharma**, Chandra Prakash Sharma, Ved P. Kumar and Surendra P. Goyal (2016): Pioneer identification of fake claws using morphometric and DNA-based analysis in wildlife forensics in India. Forensic Science International, 266. 226-233. <a href="http://dx.doi.org/10.1016/j.forsciint.2016.05.024">http://dx.doi.org/10.1016/j.forsciint.2016.05.024</a>. ISSN: 0379-0738. (<a href="http://www.ugc.ac.in/journallist/ugc\_admin\_journal\_report.aspx?eid=17526">http://dx.doi.org/10.1016/j.forsciint.2016.05.024</a>. Impact Factor: 2.395
- 14. Chhaya Bhatnagar, **Vinita Sharma** and Karnika Jani (2007): An annotated study of mammalian fauna of Sajjangarh Wildlife Sanctuary, Udaipur, Rajasthan (India). Online- <a href="http://www.mekonginfo.org">http://www.mekonginfo.org</a>
- 15. Chhaya Bhatnagar, Karnika Jani and Vinita Sharma (2007): Vanishing habitats of aquatic birds in the City of Lakes, Udaipur: A case study. The Indian Forester, Vol.133, No. 10: 1395-1402. ISSN :0019-4816. (http://www.ugc.ac.in/journallist/ugc admin journal report.aspx?eid=20693) Impact Factor 0.666
- 16. Vinita Sharma, Karnika Jani and Chhaya Bhatnagar (2005): Biodiversity of mammals in Sajjangarh Wildlife Sanctuary, Udaipur Wildlife Division, Udaipur: An attempt to study the habitat preference of some. Bulletin of Biological Sciences, Volume IV, Issue I: 39-44. \* Now name changed as International Journal on Biological Sciences. ISSN: 0976-4518. NAAS Rating 2.37. Published by National Environmental Science Academy\*. http://www.nesa-india.org/

(http://www.ugc.ac.in/journallist/ugc admin journal report.aspx?eid=7775)

# Published in others (Chapters in book and proceedings of international and national conferences)

## **Proceedings of International Conferences: 02**

- 1. Vipin, **Sharma**, V., Mukesh and Prasad, A. (2013): Population genetic structure of *Anopheles stephensi* in Northwestern India. In proceedings of XIIth International Conference on Vector and Vector Borne Diseases held on 16<sup>th</sup>-18<sup>th</sup>, September organized by Mohanlal Sukhadia University, Udaipur and NAVBD, Bhubaneshwar. pp. 96-102.
- 2. Chhaya Bhatnagar, Karnika Jani, Vinita Sharma, Meenakshi Mahur, Rekha Salvi and Arti Prasad (2008): Aquatic bird diversity of Lake Bari (A component of Udaipur Important Bird Area) with special note on its habitat management. In Proceedings of Taal 2007: The 12<sup>th</sup> World Lake Conference (From 28<sup>th</sup> October 2<sup>nd</sup> November, 2007) organized by Ministry of Environment and Forests in the joint collaboration of International Lake Environment Committee (ILEC). Editors: Sengupta, M. and Dalwani, R. pp. 554-557. <a href="http://wldb.ilec.or.jp/data/ilec/wlc12/C-%20Biodiversity/C-30.pdf">http://wldb.ilec.or.jp/data/ilec/wlc12/C-%20Biodiversity/C-30.pdf</a>

# Proceedings of National Conferences/Seminar/Symposium: 03

- 1. Chhaya Bhatnagar, Rekha Salvi, Meenakshi Mahur, Vijay Kumar Koli, Karnika Jani and **Vinita Sharma** (2008): Chiropteran diversity of Udaipur City in Proceedings of "Conservation and Utilization of National Resources and their role in Sustainable Development" held on 18<sup>th</sup> -19<sup>th</sup> October, 2008 at Jhunjhunu. pp. 113-115.
- 2. Chhaya Bhatnagar, **Vinita Sharma**, Karnika Jani and Nidhi Gill (2007): Primary productivity and energy flow in Jhamri Dam. Proceedings of DAE-BRNS National Symposium on Limnology (NSL-07) held on February 19<sup>th</sup>-21<sup>st</sup>, 2007 at Udaipur. pp. 233-235.
- Chhaya Bhatnagar, Vinita Sharma, Karnika Jani and Nidhi Gill (2007): Plankton and Ichthyo-fauna of Jhamri Dam, Udaipur, Rajasthan. Proceedings of DAE-BRNS National Symposium on Limnology (NSL-07) held on February 19<sup>th</sup>-21<sup>st</sup>, 2007 at Udaipur. pp. 236-238.

## Chapter in book: 01

1. Chhaya Bhatnagar and **Vinita Sharma** (2007): Diversity and distribution of mammals in Sajjangarh Wildlife Sanctuary: The impact of Ecotourism. IN. Environmental Management Practices: An Indian Outlook. Himanshu Publications, Udaipur. pp.314-320. ISBN:81-7906-170-1

## CONFERENCES/SEMINAR/SYMPOSIA ATTENDED: 25

### **International: 03**

- 1. International Symposium organized by Central University of Jammu in collaboration with Dyrban University of Technology, South Africa on "Sustainable Green Initiative: A Global Perspective" dated 05/09/2023. (Presented Pral paper entitled:Integration of technologies in combating illegal wildlife trafficking of horn trophies od Asian and African assemblage A way forward toward G20).
- 2. 12<sup>th</sup> World Lake Conference Taal 2007, "Conserving Lakes and Wetlands for Future" at Jaipur from 28<sup>th</sup> October–2<sup>nd</sup> November, 2007 organized by MoEF in the joint collaboration of International Lake Environment Committee (ILEC). **Presented poster entitled:** Aquatic Bird Diversity of Lake Bari (A Component of Udaipur Important Bird Area) with a Special Note on Its Habitat Management.
- 3. International Conference on Environment Management Practices in India: Issues, Imperatives and Implications organized by Pacific Institute of Management, Udaipur from March 3-5, 2006. (Presented Oral Paper entitled: Diversity and distribution of mammals in Sajjangarh Wildlife Sanctuary: The impact of Ecotourism).

# National: 22

- 4. Presented poster entitled "Forensic Class Characterization from Seized Rhino Horn: A tool for combating transboundary illegal wildlife trade" in three days 11<sup>th</sup> Young Investigators' Meeting 2019 organized by India Bio Science and IIT Guwahati on 6<sup>th</sup> to 8<sup>th</sup> March, 2019.
- 5. Presented poster entitled "Protocol for wildlife forensic morphometric characterization of the Himalayan Tahr (*Hemitragus jemlahicus*; C.H. Smith, 1826), the Himalayan Goral (*Naemorhedus goral*; Hardwicke, 1825) and the Himalayan Serow (*Capricornis thar*; Hodgson, 1831) horns trophies: Implications in combating illegal wildlife trafficking" in two day National Seminar on Challenges in Biodiversity Conservation and Management organized by Department of Zoology in collaboration with Poonch Campus, University of Jammu on 20th and 21st December, 2018.
- 6. Presented poster entitled "Protocol for wildlife forensic morphometric characterization of endemic wild bovid species *Antilope cervicapra* (Linnaeus, 1758) and *Boselaphus tragocamelus* (Pallas, 1766) horns trophies: Implications in combating illegal wildlife trafficking" in VIth Annual Convention of Society for Veterinary Science & Biotechnology (SVSBT-2018) and National Symposium on "Newer Concepts and Approaches for Improvement in Animal Health and Production" organized by College of Veterinary and Animal Science, Navania, Vallabhnagar, Udaipur on 13-14th December, 2018 (Best paper award)
- 12<sup>th</sup> JK Science Congress 2017, March 2-4, 2017 organized by University of Jammu, Jammu and J&K State Science, Technology & Innovation Council. (Poster presentation: Trans-boundary illegal wildlife trade: Seized horn revealed to be from African Black Rhinoceros using morphometric and DNA-based analysis in India)
- 8.  $XXX^{th}$  Annual Research Seminar (ARS) of Wildlife Institute of India, Dehradun on  $29^{th} 30^{th}$ , September, 2016
- 9. National Seminar on "Translational Research in Biotechnology for improving Animal Health and production" and 3<sup>rd</sup> Annual Meeting of Society for Veterinary Science and Biotechnology held on October 7<sup>th</sup> -8<sup>th</sup>, 2015 at College of Veterinary and Animal Science at Bikaner, Rajasthan, India. (**Poster/First Prize:** Pioneer identification of fake tiger claws using morphometric and DNA based analysis in wildlife forensics in India).
- 10. XXIX Annual Research Seminar (ARS), WII, Dehradun held on September 3<sup>rd</sup> -4<sup>th</sup>, 2015. (E-**Poster entitled:** Wildlife Forensics and Conservation Genetics (WFCG) Cell An update)
- 11. XXVIII Annual Research Seminar (ARS), WII, Dehradun held on August 21st, 2014.

- 12. XXVII Annual Research Seminar (ARS) of Wildlife Institute of India, Dehradun held on September 30<sup>th</sup>, 2013 to October 1<sup>st</sup>, 2013. (**Poster entitled:** "Wildlife Forensic Cell: Achievements and Learning during 2012-2013").
- 13. UGC sponsored National Seminar on Ecotoxicology, Impacts and Challenges on Biodiversity organized by Department of Zoology, Vinodini P.G. College, Rajota, Khetri, Jhunjhunu, Rajasthan from February 26<sup>th</sup> 27<sup>th</sup>, 2011. (**Presented paper entitled**: Diversity of Avian Fauna of Reserve Forest Block (Beed), Jhunjhunu, Rajasthan with special reference to migratory species.)
- 14. Participated in "Young Ecologists Talk and Interact" a Student Conference held at Indian Institute of Science, Bangalore, India from October 5<sup>th</sup> 7<sup>th</sup>, 2010.
- 15. Participated in UGC sponsored National Seminar on Yoga for Healthy Living and Fitness organized by Seth Motilal (PG) College, Jhunjhunu, Rajasthan held on February 22<sup>nd</sup>–23<sup>rd</sup>, 2010.
- 16. UGC, New Delhi sponsored National Seminar on "Quality Assurance in the Institutions of Higher Education" organized by Seth Motilal (PG) College, Jhunjhunu (Rajasthan) held on February 19<sup>th</sup> -20<sup>th</sup>, 2010. (**Oral Paper entitled**: Why there is a Cry-"Quality of Higher Education must be assured?" Just Think).
- 17. UGC, New Delhi sponsored National Seminar on "Conservation and Utilization of Natural Resources and their Role in Sustainable Development" organized by Seth Motilal (PG) College, Jhunjhunu (Rajasthan) held on October 18<sup>th</sup>–19<sup>th</sup>, 2008. (**Oral Paper entitled:** Chiropteran diversity of Udaipur City).
- 18. Participated in UGC, New Delhi and NAAC, Bangalore sponsored National Seminar on "Quality Assurance in the Institutions of Higher Education" organized by Seth Motilal (PG) College, Jhunjhunu (Rajasthan) held on August 3<sup>rd</sup> 4<sup>th</sup>, 2008.
- 19. National Conference on "Biodiversity and Conservation-Social, Economical and Environmental Issue including Pollution and Patent Laws" at Rama Devi Mahila Mahavidyalaya, Nua, Jhunjhunu held on December 10<sup>th</sup>-11<sup>th</sup>, 2007. (Oral paper entitled: Diversity and Conservation Status of mammals of Sajjangarh Wildlife Sanctuary, Udaipur Wildlife Division, Udaipur and awarded as Best Paper Presentation-II in the technical session.)
- 20. DAE-BRNS National Symposium on Limnology (NSL-07) held at College of Fisheries, MPUAT, Udaipur on February 19-21, 2007. (**Poster entitled:** Plankton and Ichthyo-fauna of Jhamri Dam, Udaipur, Rajasthan).
- 21. UGC Sponsored National Conference on Conservation and Management of Faunal Diversity of Rajasthan organized by Department of Zoology, R.L.Saharia Government PG College, Kaladera, Jaipur held from 11<sup>th</sup> to 13<sup>th</sup> August, 2006. (**Oral Paper entitled:** Threatened mammals of Sajjangarh Wildlife Sanctuary. **Awarded Consolation Prize** in the Young Scientist Award Session).
- 22. 18<sup>th</sup> Annual Conference of National Environmental Science Academy, New Delhi: Recent Trends in Environmental Sciences held at J.B. Institute of Engineering and Technology, Yenkapally, Moinabad Mandal, Hyderabad from October 25<sup>th</sup> -27<sup>th</sup>, 2005. (**Oral Paper entitled:** Biodiversity of mammals in Sajjangarh Wildlife Sanctuary, Udaipur Wildlife Division, Udaipur: An attempt to study the habitat preference of some).
- 23. 7<sup>th</sup> Annual Conference of Society of Science and Environment organized by Department of Zoology, MLSU, Udaipur from September 17<sup>th</sup> -18<sup>th</sup>, 2005. (**Poster entitled:** Study on the distribution of some large mammals on the basis of habitat preference in Sajjangarh Wildlife Sanctuary, Udaipur Wildlife Division, Udaipur).
- 24. 20<sup>th</sup> Annual Conference of Indian Academy of Neurosciences held at Department of Zoology, MLSU, Udaipur (February 21<sup>st</sup> -23<sup>rd</sup>, 2003).
- 25. National Conference on Environmental Biology organized by Department of Biosciences, Saurashtra University, Rajkot. (October 17<sup>th</sup> -18<sup>th</sup>, 2002).

# TRAINING / WORKSHOPS ATTENDED: 19

 Attended National workshop on Protein Sequencing Techniques organized by Biotecnika Info Labs Ltd. held on 23<sup>rd</sup> January, 2018

- 2. Attended National workshop on "Developmental Biology Gametogenesis and Fertilization" organized by Biotecnika Info Labs Ltd. held on 10th February, 2018
- 3. One day programme on National Science Day, 2017 organized by Central University of Jammu, Jammu and Kashmir, India on 28<sup>th</sup> February, 2017.
- 4. One day workshop on nature photography by Canon India held on 1<sup>st</sup> August, 2015 at Wildlife Institute of India, Dehradun, Uttarakhand.
- 5. Two days workshop on Human-Wildlife Interactions and Management of Invasive Alien Species held at Wildlife Institute of India, Dehradun on 23<sup>rd</sup> and 24<sup>th</sup> July, 2014.
- 6. Short-term training on Identification of herpeto-faunal species in wildlife trade on the basis of morphological features at Chennai Snake Park, Chennai from 14<sup>th</sup> to 16<sup>th</sup> July, 2014.
- 7. One day workshop on Spring Bird Festival of Uttarakhand state at WII, Dehradun on 7th February. 2014.
- 8. Two day workshop on "Spatially Explicit Capture Mark Recapture Animal Abundance Estimation" held at WII on February, 26<sup>th</sup> and 27<sup>th</sup>, 2014
- 9. National Workshop jointly conducted by Centre for Ecological Sciences CES, Indian Institute of Science IISc, Banglore and Laboratory for the Conservation of Endangered Species (LaCONES), Centre for Cellular and Molecular Biology (CCMB), Hyderabad on Application of Non-Invasive Technology to Wildlife Endocrine Assessment from February 7-9, 2012.
- 10. National Council of Science and Technology Communication, DST, Government of India sponsored five days Training Workshop on "Science Communication through Digital Media" conducted in association with MKB School, Jaipur and Vaigyanik Drishtikon Society under Golden Jubilee Celebrations of MLSU, Udaipur at Internet Center, Vigyan Bhawan, MLSU, Udaipur from May 11th-15th, 2011.
- 11. Ministry of Environment and Forests, Government of India sponsored seven days Training Workshop on Systematics and Evolution conducted by Centre for Environmental Management of Degraded Ecosystems CEMDE, University of Delhi from March 9<sup>th</sup> -15<sup>th</sup>, 2011.
- 12. Department of Science and Technology, Government of India sponsored training workshop on "Role of Scientists in Biodiversity Conservation" conducted by Wildlife Institute of India, Dehradun from October 25<sup>th</sup> 29<sup>th</sup>, 2010.
- 13. One Day workshop on "Digital Alternatives to Animal Use in Dissection" organized by Department of Zoology, University College of Science, MLSU, Udaipur in association with Mahatma Gandhi Doerenkamp Center for Alternatives to use of Animal in Life Science Education, Tiruchirapalli, Tamilnadu on 11<sup>th</sup> February, 2010.
- 14. State Level Workshop on "Faunal and Floral Diversity of Rajasthan: Importance and Conservation" organized by Society for Research in Ecology and Environment, Bharatpur in collaboration with Forest Department, Keoladeo National Park, Bharatpur and Maharani Shri Jaya PG College, Bharatpur (Rajasthan) for PG students and Wildlife Researchers from December 27<sup>th</sup> -28<sup>th</sup>, 2006. **Awarded First Prize of Best Student Participant**.
- 15. Six-Week Technology based Entrepreneurship Development Program on Digital Photography and Videography from December 15, 2005 to January 25, 2006 at Department of Geology, MLSU, Udaipur.
- 16. UGC-Infonet One-Day User Awareness Programme on 19<sup>th</sup> October, 2005 at University Central Library, MLSU, Udaipur.
- 17. One-Day workshop on 29<sup>th</sup> March, 2005 on Development of Ecotourism organized by Department of Forests, Udaipur, Rajasthan.
- 18. Workshop on Awareness of Biotechnology on March 28th, 2005 organized by Department of Biotechnology, College of Science, MLSU, Udaipur.
- 19. Three Days practical training workshop from October 25<sup>th</sup>-27<sup>th</sup>, 2004 on Animal Tissue Culture, organized by National Centre for Cell Science, Pune and Department of Zoology, MLSU, Udaipur.

## EXTRA-CURRICULAR ACTIVITIES AND LEISURE INTERESTS

- 1. Great Backyard Bird Count conducted at Central University of Jammu 16th 19th February, 2018
- 2. 2017 Great Backyard Bird Count
- 3. 2015 Great Backyard Bird Count at Wildlife Institute of India, Dehradun, Uttarakhand.
- 4. State level quiz competition held on 08/09/1996 (International Literacy Day) held at Jaipur, Rajasthan.
- 5. District level quiz competition held on 26/08/1996 at Udaipur, Rajasthan and achieved First position in the contest and selected for state level competition.
- 6. Anchor 'On-the-spot Embroidery Contest' held on 13/01/1996 at R.M.V., Udaipur and received Consolation prize.
- 7. Model competition in the field of ENERGY in 28<sup>th</sup> District Level Science Fare-95 organized by Rajasthan SERT, Udaipur, Rajasthan at Government Senior Secondary School, Fatehnagar, Udaipur held from 12/12/1995 to 15/10/1995.
- 8. Camel Ink Handwriting competition held on 08/09/1994 at Rajasthan Mahila Vidhyalaya, Udaipur and secured Second prize.
- 9. Leisure interests: Idea generation, reading and solving puzzles, su-do-ku and photography.

## INVITED LECTURES AND OTHER CONTRIBUTION

- 1. Imparted as evaluator in National Panel, National Children Science Congress-2016 held at Baramati,
- 2. Delivered lectures and contributed (Resource Person) in hand's-on sessions on 15 th, 16 th, 17 th and 18 th November, 2016 in "One month Orientation and Training course for officers from Bangladesh Forest Department" organized by Wildlife Institute of India, Dehradun, Uttarakhand on following topics: Identification of claws, identification of species from hair and major bones in illegal wildlife trade.
- 3. As Resource Person. J&K DST.3<sup>rd</sup> February, 2017
- As Resource Person in GSDP training on "Bird Identification and Basic Ornithology" organized by Department of Wildlife Protection, Government of Jammu and Kashmir, India. 17<sup>th</sup> February 2020 to 12<sup>th</sup> March, 2020.
- 5. Resource person: ZSI, SACON, Wildlife Institute of India for different Wildlife Forensic related activities

### PERSONAL PROFILE

Father's Name	:	Er. Khem Chand Sharma	Date of Birth		September 30 <sup>th</sup> , 1980
Mother's Name	:	Smt. Jaya Sharma	Nationality	• •	Indian
Marital Status	:	Married			
Husband	:	Dr. Vipin			

### REFERENCES

Dr. Chhaya Bhatnagar (Ph.D.	Supervisor)	Dr. D.V. Rao			
Assistant Professor		Scientist-D, Office-in-Charge			
Aquatic Toxicology and Wildlif	e Research Laboratory	Freshwater Biology Regional Centre			
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### **DECLARATION**

I, Dr. Vinita Sharma do hereby declare that what is stated above is correct, complete and is true to the best of my knowledge and belief.