



School of Studies of Life Science  
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Dr. Sushant Kumar Verma  
Assistant Professor

**Qualifications:** M.Sc., Ph.D. (2011, Zoology)

**Area of Interest/Specialization:** Fish Biology, Biodiversity and Conservation

**Experience:**

S.No.	Position held	Name of the Institute	From	To
1.	Assistant Professor	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	12.12.2013	Till date
2.	Assistant Professor (Ad-hoc)	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	16.07.2013	11.12.2013
3.	Assistant Professor (Contract)	Kurukshetra University, Kurukshetra, Haryana	04.08.2012	31.05.2013
4.	Assistant Professor (Ad-hoc)	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	08.08.2011	31.05.2012

**Award and Honors:**

S.No.	Name of Award and Honour	Awarding Agency	Year
1.	National Eligibility Test	UGC	2006
2.	Junior Research Fellowship	BRNS (Board of Research in Nuclear Science, Dept. of Atomic Energy, Govt. of India)	2006
3.	Research Associate (Selected)	Zoological Survey of India	2011

**Research Projects:**

S.N.	Title of the Project	Cost in lakh	Duration	Agency
1	Evaluation of Reproductive, Biochemical, Haematological, and Histopathological Responses of <i>Clarias batrachus</i> (Linnaeus, 1758) after Acute Exposure to Atrazine Herbicide	06	Two years (2015-2017)	UGC

## International Collaboration/Consultancy:

### Consultancy

KORBA SUPER THERMAL POWER STATION, NTPC Ltd. To study the Impact of the NTPC ash dyke on the presentation benthic fauna, Riparian vegetation and community health in the Hasdev river basin

### Publications:

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	<b>Verma, S.K.</b> , Soni, R.. & Gupta, P.	Herbicide pretilachlor induces oxidative stress in freshwater fish <i>Clarias batrachus</i>	Biology Bulletin	In Press		2022
2.	<b>Verma, S.K.</b> , Soni, R.. & Gupta, P.	Chloroacetamide herbicide pretilachlor induces genotoxicity in the fresh water fish <i>Clarias batrachus</i>	Toxicological and Environmental Chemistry	DOI: 10.1080/02772248.2021.2007921		2021
3.	Pradhan, D., Singh, R.K. & <b>Verma, S.K.</b>	Genotoxic Potential Assessment of the Herbicide Bispyribac-Sodium in a Fresh Water Fish <i>Clarias batrachus</i> (Linn.)	Bulletin of Environmental Contamination and Toxicology	105	715-720	2020
4.	Gupta, P., & <b>Verma, S.K</b>	Evaluation of genotoxicity induced by herbicide pendimethalin in fresh water fish <i>Clarias batrachus</i> (linn.) and possible role of oxidative stress in induced DNA damage.	Drug and Chemical Toxicology	DOI: 10.1080/01480545.2020.1774603		2020
5.	Gupta, P., & <b>Verma, S. K.</b>	Impacts of herbicide pendimethalin on sex steroid level, plasma vitellogenin concentration and aromatase activity in teleost <i>Clarias batrachus</i> (Linnaeus).	Environmental Toxicology and Pharmacology	75	103324	2020
6.	Soni R., & <b>Verma, S.K.</b>	Impact of herbicide pretilachlor on reproductive physiology of walking catfish, <i>Clarias batrachus</i> (Linnaeus).	Fish Physiology and Biochemistry	46	2065-2072	2020
7.	R. Soni and <b>S K Verma</b>	Acute toxicity and behavioural responses in <i>Clarias batrachus</i> (Linnaeus) exposed to herbicide pretilachlor	Heliyon	04	e01090	2018
8.	<b>S. K. Verma</b> and T. D. Murmu	Impact of Environmental and Disturbance Variables on Avian Community Structure along a Gradient of Urbanization in Jamshedpur, India	<i>PLoS ONE</i>	10 (7)	e0133383	2015
9.	<b>S. K. Verma</b> and A. Alim	Ultimobranchial gland respond in a different way in male and female fresh water teleost <i>Mastacembelus armatus</i> (Lacepede) during reproductive cycle	Animal Reproduction Science	156	111-117	2015

10.	<b>S. K. Verma</b> and A. Alim	Differential activity of Stanniocalcin in male and female fresh water teleost <i>Mastacembelus armatus</i> (Lacepede) during gonadal maturation.	<i>PLoS ONE</i>	9(7)	e101439	2014
11.	<b>S. K. Verma</b> and A. Alim	Differences in the activity of prolactin cells in male and female fresh water teleost <i>Mastacembelus armatus</i> (Lacepede) during gonadal cycle.	Asian Pacific Journal of Reproduction	3(3)	231-237.	2014
12	<b>S. K. Verma</b>	A preliminary survey on the avian community of Dalma Wildlife Sanctuary, Jharkhand, India.	Journal of Threatened Taxa,.	3(5)	1764–1770	2011
13.	<b>S. K. Verma</b>	Population and roosting behaviour of Barn Swallows <i>Hirundo rustica</i> wintering in Jamshedpur, Jharkhand, India	Journal of Threatened Taxa,.	2(2)	721-723.	2010
14	<b>S. K. Verma &amp; murmur, T.D</b>	Ichthyofauna of Dimna Lake, East Singhbhum District, Jharkhand, India	Journal of Threatened Taxa	2(6)	992-993	2010
15	<b>Verma, S.K.</b>	A Checklist of Free Ranging Birds of Tata Steel Zoological Park, Jamshedpur, India.	<i>Biospectra</i>	4(1)	177-180	2009
16.	<b>S. K. Verma</b>	Species composition and seasonal variation of butterflies in Dalma Wildlife Sanctuary, Jharkhand, India	Journal of Threatened Taxa.	1(5)	295-297	2009
17	<b>Verma, S.K.</b>	Studies on Species Diversity, Abundance and Habitat Associations of Butterfly Species in and around the Steel City of Jamshedpur	<i>Biospectra</i>	4(1)	53-58	2009
18	<b>Verma, S.K.</b>	Studies on the fish diversity of river Swarnarekha at Jamshedpur.	<i>Biospectra</i>	3(1)	83-86	2008

### Recent Books/Book Chapters/Monographs etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1	Zebrafish (Danio rerio): A Versatile Model for Reproductive Biology	Younis Ahmad Hajam, Raksha Rani, Preeti Sharma, Rajesh Kumar, <b>Sushant Kumar Verma</b>	Springer	2021
2	Calcium Regulation in <i>Mastacembelus armatus</i> during Reproductive cycle	<b>Sushant Kumar Verma</b>	LAP LAMBERT Academic Publishing, Germany	2012

## **Research Supervision**

**Ph. D students enrolled:** 04

**Ph. D students awarded:** 02

## **Administrative Responsibilities**

1. Examination-in-charge (Department of Zoology)