

Dr. Sanghamitra Basu



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Researchgate: <https://www.researchgate.net/profile/Sanghamitra-Basu>

Languages known: English, Bengali, Hindi.

Educational Qualifications:

Degree	University/Institution	Subjects
Ph. D	School of Environmental studies, Jadavpur University	Environmental Studies (Ecology & Bio-stats)
M.Sc.	Bangabasi College, Calcutta University	Zoology (Cytogenetics special paper)
B.Sc.	Ramnarayan Ruia College, Mumbai University	Zoology (Major) (Marine Science-Elective paper)

Research Publications:

1. Basu, S., Ghosh, and A, K. 2016. Climate change, Role of Zooplankton and Impact in Higher Tropic Levels in Indian Sundarban Delta, *Indian Journal of Landscape and Ecosystems and Ecological Studies*, 39(2):40-52.
2. Basu, S., Chanda, A., Gogoi, P., Bhattacharyya, S. 2021. Organochlorine pesticides and heavy metals in the zooplankton, fishes, and shrimps of tropical shallow tidal creeks and the associated human health risk. *Marine Pollution Bulletin*, 165, 112170.
3. Basu, S., Bhattacharyya, S., Gogoi, P., Dasgupta, S., Das, S. K. 2021. Variations of surface water quality in selected tidal creeks of Sagar Island, Indian Sundarban eco-region: A multivariate approach. *Applied Water Science*, 11(3), 1-11.
4. Basu, S., Chanda, A., Gogoi, P., Bhattacharyya, S. 2021. A Multi-decadal Comparative Analysis of a Set of Physicochemical and Nutrient Parameters in the Tropical Tidal Creeks of Indian Sundarbans Mangrove Biosphere Reserve. *Thalassas: An International Journal of Marine Sciences*, 37(1), 303-312.
5. Basu, S., Gogoi, P., Bhattacharyya, S., Das, S. K., & Das, B. K. (2022). Variability in the zooplankton assemblages in relation to environmental variables in the tidal creeks of Sundarbans estuarine system, India. *Environmental Science and Pollution Research*, 1-22.
6. Basu, S., Chanda, A., Das, S., & Bhattacharyya, S. (2021). Persistent Organic Pollutants in the Coastal and Estuarine Regions Adjoining the Indian Periphery of the Bay of Bengal. In *Estuarine Biogeochemical Dynamics of the East Coast of India* (pp. 103-110). Springer, Cham.
7. Basu, S., Gogoi, P., & Chanda, A. (2024). An accidental encounter with bloom of diatom *Palmerina hardmaniana* (Greville) Hasle in Sundarbans, India: Impact on zooplankton community structure in tidal creek environment. *Marine Pollution Bulletin*, 199, 115935.

Research Areas & Interests: estuarine and marine water ecology; water quality study; pesticides and heavy metals estimation in marine organisms, surrounding water and sediments;

study of pollution levels in water and food chains; study of bio-accumulation and bio-magnification in aquatic biota; human health risk assessment; Environmental Impact Assessment; taxonomy of zooplankton, study of organismal diversity in correlation with climate change.

Other Academic Activities:

- Paper setter and examiner for UG examinations of Zoology.
- Paper setter for PG (Rabindra Bharati University)
- Conducting Certificate courses, seminars, etc

Workshops/ Training attended:

1. Participated at National workshop on 'Usage of Fold scope' held at Agartala, Tripura in November, 2018.
2. Participated in 5 days hands-on training program on 'Advances in enumeration and taxonomic identification of plankton community in inland open waters' held during 9-13 December, 2019 at ICAR-CIFRI headquarter, Barrackpore, Kolkata.
3. Participated in Hands on training workshop on 'Peek into Bio-diversity and Beyond: A hands-on training workshop on NGS' (Next Generation Sequencing) organized by IISER Kolkata on March, 2022 at IISER, Kolkata.
4. Participated in 2022 Great Backyard Bird Count on June, 2022.
5. Participated in Faculty Development Program on 'Preparedness for NAAC conducted by WB state Education Council in collaboration with Numerous Colleges of West Bengal State University on September 2022 at ASSANA Bhawan, Kolkata.

Seminars & Conferences attended:

- Presented (Poster) in the National conference on "Current Status on Faunal Diversity of Mangrove Ecosystem in India" 2017 held at ZSI and presented (poster) on the same theme.
- Presented (Oral) in the National Seminar on "Emerging trends in Environmental Science and Technology", 2017 held at Jadavpur University, and presented a paper on Bio-restoration.
- Presented (Oral) in the One-day seminar on "Current Environmental Issues", 2018 held at Jadavpur University and presented (Oral) on Water Crisis.

- Presented paper in the International Biodiversity Congress, 2018 held at Forest Research Institute on September 2018, Dehradun, and presented paper on Changing Trend in Zooplankton community –decadal study around Sagar Island, Indian Sundarban Delta’’
- Presented paper in the ‘International Conference on Livelihood promotion, Bio-diversity Conservation and Social Security in Indian Sundarbans’, 2018 held at Jharkhali, Sundarbans and presented paper on ‘An account of biodiversity and conservation of marine aquatic ecosystem of Indian Sundarbans’.
- Presented paper in the International Conference on Sustainable Environment & Healthcare (ICSEH 2019) at Jadavpur University on December 2019 organized by Lincoln University, Malaysia in collaboration with Dr Tarak Nath Podder Memorial Foundation, Centre for Disaster Preparedness & Management, Jadavpur University & Chittaranjan National Cancer Institute, Kolkata.
- Presented paper in the international seminar on ‘Microbiology: State of the Art’ on December 2019 organized by IQAC of Sarojini Naidu College for Women in collaboration with Lincoln University, Malaysia & Biological Sciences departments of Sarojini Naidu College for Women.
- Participated (Online) in ONE EU Conference (Health, Environment and Society) on 2022 at Brussels and Online.

Working/ Teaching experience:

7 years of Teaching experience in UG college (Zoological Sciences- Major Subjects: Ecology; Evolution; Animal Physiology; Bio-chemistry; Molecular Biology; Physiology ;Climate Change and Contemporary issues; Animal Behavior).

Non-Academic Activities:

- Administrative Proficiency: Member of Committees (Research and Ethics, Patent Cell & Environment committee) in the college.