

# Curriculum Vitae

**PUNYASLOKE BHADURY as of 10<sup>th</sup> February, 2023.**

Professor and SwarnaJayanti Fellow, Department of Biological Sciences and Centre for Climate and Environmental Studies,

Indian Institute of Science Education and Research Kolkata (IISER Kolkata),  
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**Month and Year of Birth-** March, 1979.

## **Educational Background**

2005- Ph.D., Biological Sciences, Plymouth Marine Laboratory and University of Plymouth, Plymouth, United Kingdom.

2002- M.Sc., Marine Resource Development and Protection, Heriot Watt University, Edinburgh, United Kingdom.

2000- B.Sc. Honours in Botany, University of Calcutta, Kolkata, India.

## **Professional Background**

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| December 2021-Present       | Lead, Centre for Excellence in Blue Economy (CoE-BE), IISER Kolkata, India.  |
| October 2019-Present        | Professor & SwarnaJayanti Fellow, Department of Biological Sciences & Centre for Climate and Environmental Studies, IISER Kolkata, India.  |
| October 2018- Present       | Professor, Department of Biological Sciences & Centre for Climate and Environmental Studies, IISER Kolkata, India.                         |
| August 2017- November, 2022 | Head, Centre for Climate and Environmental Studies, IISER Kolkata, India.  |
| March 2014- September 2018  | Associate Professor, Department of Biological Sciences, IISER Kolkata.   |
| June 2014- July 2017        | Head, Department of Biological Sciences, IISER Kolkata.  |
| January 2009- February 2014 | Assistant Professor, Department of Biological Sciences, IISER Kolkata, India.  |
| October 2008- December 2008 | Scientist-C, Wildlife Institute of India, Dehradun, India.   |
| March 2006- September 2008  | Postdoctoral Research Associate, Department of Geosciences (Advisor: Professor Bess Ward), Princeton University, United States of America. |

**Peer-reviewed publications (Total-94** including in Marine Pollution Bulletin, Environmental Science and Technology, Remote Sensing of Environment, Journal of Hydrology, Applied Geochemistry, Geoscience Letters, Environmental Science and Pollution Research, Frontiers in Microbiology, Environmental Research, Journal of Materials Chemistry B and Bioconjugate Chemistry); **Book chapters (peer-reviewed)-14**

### **Professional Responsibilities (selected)**

- (a) Writing Team Member, Third World Ocean Assessment of the UN Division for Ocean Affairs and the Law of the Sea (DOALOS), United Nations (2022-present)
- (b) Working Group Member, International Network on Soil Biodiversity (NETSOB), Global Soil Partnership, Food and Agricultural Organization of the United Nations (FAO) (2021-present)
- (c) Member, Executive Council, Global Ocean Acidification Observing Network (GOA-ON) (2021-present)
- (d) Vice President, Biogeosciences, Asia Oceania Geosciences Society (AOGS) (2022-present)
- (e) Coordinator, South Asia Regional Hub on Ocean Acidification (SAROA) (endorsed by GOA-ON, IOC UNESCO and ICC-IAEA) (2021-present)
- (f) National Contact Point (India) for the international program Interdisciplinary Ocean Science for Sustainable Development (IMBeR) (2021-Present)
- (g) Vice Chair, Regional Advisory Committee, Asia Oceania Geosciences Society (AOGS) (until 2022)
- (h) Panelist, COP26 Glasgow (Ocean and Adaptation and Resilience: Creating and implementing the enabling conditions for action through science, capacity building, and other cross-cutting approaches) (2021)
- (i) Grant proposal reviewer for FCT Fundação para a Ciência e Tecnologia (Portugal), Department of Science and Technology (India), Department of Biotechnology (India) Ministry of Earth Sciences (India) and Asia Pacific Network for Global Change Research (Japan)

### **Editorial Responsibilities (selected)**

- (a) Editor, Biogeochemistry of the Coastal Indian Ocean (A book to be published by Springer) (In Progress)
- (b) Associate Editor, Lithosphere (2023-present)
- (c) Editor, iScience (2022-present)
- (d) Editor, PeerJ (2022-present)
- (e) Editor, Geoscience Letters (2021-present)
- (f) Associate Editor, Ecological Solutions and Evidence (2020-present)
- (g) Guest Editor, Early Career Researchers: Environmental Science in South and South East Asia Environmental Research Letters (ERL) and Environmental Research Communications (ERC) (2021-present)
- (h) Guest Editor, Metal and Metalloid Pollutants in the Earth's Environment, Geoscience Letters (2020-2021)
- (i) Referee responsibilities for numerous leading international journals including Nature Climate Change and Nature Geosciences.
- (j) Reviewer, IPCC and IPBES

### **Honors (selected)**

- (a) Visiting Professor, UCSI University, Malaysia (2022-present)
- (b) SwarnaJayanti Fellowship Award (2017-18) in the area of Earth and Atmospheric Sciences by the Government of India
- (c) Team Leader, 3<sup>rd</sup> Indian Arctic Expedition, Government of India, 2010 (Winter Phase)
- (d) Recipient of the prestigious Department for International Development (DFID) Scholarship to pursue M.Sc. studies in United Kingdom from 2001-2002

**Research interests**

Biological complexity and biogeochemical cycling in coastal ocean such as mangroves, estuaries and lagoons; microbially mediated coastal carbon cycling; eDNA based biomonitoring of coastal ocean; Taxonomy and rapid biodiversity assessment of marine metazoan phyla from shallow coastal zones to deep sea; Developing new approaches for tracking anthropogenic pollutants using metazoan phyla as bioproxy; nature-based solutions (NbS) and nexus between land-freshwater-atmosphere-ocean for coastal ecosystem restoration; Bioremediation of contaminated coastal ecosystems; Climate adaptation and sustainable livelihood in coastal areas; Blue economy and Policy Frameworks; Marine ecology research in Global South

**Research grants (Ongoing)**

Projects encompassing above research interests funded by different agencies including Science and Engineering Research Board (SERB, India), DST-NWO Merian Fund (India-Netherlands Cooperation Grant), Odisha State Council on Science and Technology (India), Wildlife Trust of India (WTI, India), World Wildlife Fund for Nature- India (WWF-India), Nature Environment and Wildlife Society (NEWS, India), West Bengal Pollution Control Board (India), CIFOR-Indonesia (Indonesia), WorldFish (Malaysia) and eDNA Collaborative (United States of America)

**Other academic commitments**

PhD Researcher (completed)-6; PhD Researcher (Ongoing)-7

Postdoctoral Research Associate-1

BS-MS/Int PhD thesis supervised- numerous

Teaching commitments for BS-MS, Integrated PhD and PhD Programs of IISER Kolkata