

CURRICULUM VITAE

Prof. Sumit Homechaudhuri



D.O.B.: 28th August, 1959.

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Current Res.: Apartment No.1203, Tower I,
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Academic/Professional Career:

EXAM	SUBJECT	BOARD/UNIVERSITY	YEAR
Advanced certificate	Fisheries Science	ICAR, Govt. of India	1988
Ph.D.	Fisheries Science *	University of Calcutta	1990
M.Phil.	Environmental Science	University of Calcutta	1986
M.Sc. (Gold Medalist)	Zoology	University of Calcutta	1982
B.Sc. (Honours)	Zoology	Presidency College, University of Calcutta	1980

Teaching & Research Experience:

UGC Junior and Senior Research Fellowships (Pre- Doc)	July,1984 – September, 1988,
CSIR Post Doc Senior Research Fellowship following Ph.D. thesis submission in September,1988	October.1988- August,1989
Lecturer in Zoology, Darjeeling Govt. College, North Bengal University	August 1989 - November 1993
Lecturer in Zoology, Presidency College, University of Calcutta	December 1993 - July 1994
Assistant Professor, Presidency College, University of Calcutta	August 1994 - July 1998
Reader in Zoology, Presidency College, University of Calcutta	August 1998 - November 1999
Reader in Zoology, University of Calcutta	December 1999 - July2006
Professor of Zoology, University of Calcutta	August 2006 - Present

- **Total Research Experience:** 38 years.(Since 1984)
- **No. of publications-** 180+
- **Total Teaching Experience:** 33 years. (Since 1989)
- **No of supervised Ph.D. awardees:** 28
- **No. of M.Phil. students mentored:** 39
- **Ph.D. thesis submitted / to be submitted:** 3
- **No. of present registered Ph.D. students:** 5, Post doctoral- 3,
- **Attended several national, international conferences, scientific meetings and delivered invited lectures pertaining to key issues on ecological and fisheries sciences.**
- **Number of extramural projects (completed & supervised):** 12
- **Number of internal institutional projects (supervised & ongoing):** 10

Current Research Programmes: (Specialization- Ecological Sciences and Fisheries Science)

1. Sustainable aquaculture technology and carrying capacity of aquatic systems – Environmental impact assessment and remediation methods for resource use in a sustainable way.
2. Genetic diversity of riverine fish guilds in relation to nutritional diversity - Assessment of genetic variations and physiological diversity towards resource conservation in the riverine (Freshwater and Estuarine) systems.
3. Community structure and interactions in zooplanktonic population in relation to trophic status of limnetic systems - Impact of predation, competition, relative abundance, community structure, community composition in relation to resource utilization, cross compared between trophic systems.
4. Metapopulation theories and importance of trade offs in persistence of threatened fishes - Analysis of constraints of limiting population success of threatened fishes, exploration of ecological needs for survival of larval and juvenile fish towards conservation.
5. Evaluation of diseases as fish extinction factor beyond threshold level - Serological, molecular and immuno-diagnostic study of bacterial diseases in fish and characterization of hemolysin gene in clinical isolates of pathogenic bacteria.
6. Trophic partitioning in the intertidal mudflats and physiological survival strategies of fish populations - composition of dietary guild and their nutritional profiling are used to construct phenogram describing the fish assemblage.
7. Multiscale and multimetric study of fish meta community - Candidate metrics to construct Index of biological integrity of estuarine and freshwater lotic systems from source fish community's differential feeding, successful reproduction, avoidance of predation and competition, searching habitat condition as well as physiological metrics.
8. Eco-toxicological screening of aquatic systems using fish and zooplanktonic fauna.
9. Molecular taxonomy of fish in Eco-sensitive aquatic hotspots and Genetics of Survival strategies in characteristics species.

Awards/Honours:

1. University Gold Medalist in the M.Sc. Examination, 1982.
2. Recipient of International Travel Support (ITS) from Department of Science & Technology (Govt. of India) for academic visit to Europe.
3. Honorary National Fellow (FNZS) , The Zoological Society

Administrative / Professional Experience / Key positions held:

1. Coordinator, DST- FIST II, Programme in Zoology at University of Calcutta.(2012- 2017)
2. Coordinator, UGC SAP DRS II, Programme in Zoology, University of Calcutta.(2013-2018)
3. Chairman, Consortium of Biodiversity in Eastern India, University of Calcutta.
4. Member of the Post-graduate Faculty Council in Science, University of Calcutta during 1995-1999 and 2003 – 2012.
5. Former Head of the Department, Department Of Zoology, University Of Calcutta.
6. Member of the Under-graduate Board of Studies, Calcutta University for consecutively 5 terms (1995-2015).
7. Former Chairman of U.G. Board of Studies, C.U. and currently V.C. nominee.
8. Former Chairman of the Post-graduate Board of Studies, University of Calcutta.
9. Acted as Member of the Presidency College Postgraduate council for 4 years (1995-1999) for policy decisions on P.G. education.
10. Member of the Postgraduate Board of studies and Ph.D. Expert committee, Netaji Subhash Open University, West Bengal State University, Alia University and R.K.M.V.C. college (Autonomous), Rahara
11. Ex Member, Academic board, School of Life Science, North Eastern Hill University
12. Ex Member, Academic Excellence Committee, University Of Calcutta.
13. Member of Academic Committee, WB Joint Entrance Board, Govt. of West Bengal.
14. Course coordinator of 2 Refresher Courses in Life Science, sponsored by UGC – ASC, University of Calcutta.
15. Ex-Convener, Ph.D. committee in Zoology, University of Calcutta

Special Assignments

1. Currently, appointed Nodal Officer of NMCG, National Commission for Clean Ganga (Namami Gange) to carry out Academic projects on Riverine Ecosystems in India
2. Advisor, Union Public Service Commission, New Delhi
3. Member, Research Advisory Committee, Department of Aquaculture Management and Technology, Vidyasagar University (2018 - Present)
4. Honorary General Secretary of the Zoological Society of Kolkata (2013- Present).
5. Consultant through C.U.I.I.P. to the World Bank project on ‘Common Property Resources, Agricultural Development strategies and the Poor in West Bengal.’ (2002-2003).
6. Visiting Faculty in Ecology, M.Phil. Programme in Environmental Science, Jadavpur University (2003- 2008).
7. Coordinator of the course programme ‘M.Phil. in Fisheries Technology’ of University of Calcutta.(2005- 2009).
8. Worked as Consultant to the Tropical Aquaculture Society C/O Technocom Agro Pvt. Ltd. for establishing an advanced Laboratory for modern aquaculture research needs.
9. Ex- Chairman of the Institutional Bioethics committee, University of Calcutta.
10. Worked as senior consultant to International Research programmes on Aquatic Biodiversity with WWF in Bhutan.
11. Ex Member, Advisory committee, West Bengal Higher Education Council.
12. Former member, Executive council, Kaji Najrul University.

Organization of theme events for advancement of learning as Convener (Last 6 years)

1. 3-days Workshop (25th, 26th & 27th September, 2013) on – **“Application of Statistics in Life Sciences”** for UG and PG faculty members of Undergraduate Colleges and Universities.
2. Workshop on **“Advanced methods in field biology & statistical Application in life science research”** (October 10 – 21, 2014) - A capacity improvement initiative.
3. A 10-day’s Workshop on **“Instrumentation and Statistical Application in Life Science Research”** 8th October to 7th November, 2015- A capacity Improvement initiative for teachers and researchers from Colleges, Universities and research institutes of eastern and north eastern states.
4. **National Level Young Scientists’ Meet- I (2016)** - Prof. Hiralal Chaudhuri Commemorative Conference (February 5 – 6, 2016); **Theme: Research Innovations in Aquatic Genomics & Biotechnology –An Indian Perspective.**
5. **Hands on training on “FLOW CYTOMETRY”** (MARCH 17, 19 & 20, 2016) for research scholars and faculties for various institutes.
6. National Conference on **“Neo-classical Approaches in Zoological Sciences”** and IInd - ‘Young Scientists’ Meet’ (YSM) held on February 16 & 17, 2017.
7. Interactive workshop on **“Prospects and Constraints of Aquaculture Practices”** on 19th February, 2018 in collaboration with ICAR-Central Institute of Fisheries Education at ICAR-CIFE, Kolkata Centre.
8. National Conference on **Recent Trends in Zoological Research in North East India** on 19th and 20th April, 2018
9. **Sparsha, 2019: One day seminar on Ethics and Interdisciplinary Education towards Quality of Human Life**, held on 13th January, 2019.
10. **National Conference held at Visva Bharati, Santiniketan, February , 2020**