

Resume

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SUMMARY

Sudipto Chatterjee, Associate Professor at, TER School of Advanced Studies where he teaches Biodiversity and Conservation and Wildlife Conservation and Management. , He has been working for conservation of forests and biodiversity since 1992. He worked as Biodiversity and Protected Areas Management Specialist in Sikkim Biodiversity Conservation and Forest Management Project, Govt. of Sikkim, as Heads of Forests Conservation Programme of WWF-India and Biodiversity and Conservation programme of Winrock International India. He served as Team Member Biodiversity in the Technical Facilitation Organization for the Sustainable Ecosystem and Land Management Country Partnership Project at the Indian Council of Forestry Research and Education, Govt. of India. He worked as Heads the Communities and Biodiversity Division and Forests and Carbon Division of Wildlife Trust of India (WTI). He received the Whitley Associate Award, 2009 from Whitley Fund for Nature, UK for conservation of Rhododendrons in Eastern Himalaya. He is the Co Lead in the Global Challenge Research Fund supported project on impacts on pollution on forests of Himalaya as Lichens as an indicator.

EDUCATION

2012	PhD in Botany . Thesis on conservation and sustainable use of wild medicinal plants in Uttarakhand in Western Himalaya from HG Sagar University. Madhya Pradesh, India.
2000	International Diploma in Plant Conservation Techniques, Royal Botanical Garden, Kew, London
1992	M.Phil in Environmental Sciences, Jawaharlal Nehru University, New Delhi (with specialization in Ecology)
1989	Masters in Environmental Sciences, Jawaharlal Nehru University, New Delhi

TERI School Of Advanced Studies (2014- present)

1. **Head . Department of Natural Resources (2016- 2020)**
2. **Head, Coca Cola Department of Regional Water Studies (2022- present).**

Masters Courses:

Ecology.
Biodiversity and Conservation.
Wildlife Conservation and Management.
Communities and Conservation
Ecosystems and Climate Change

Doctoral Research Supervision :6. Awarded : 1.

Principal Investigator (PI) and CO PI to projects.

1. Impacts of pollution on forests of Himalaya with lichens as indicator with support from UK Research Innovation (UKRI), Global Challenge Research Fund (GCRF) . 2019- present
2. CO PI to Indian collaborative for applied sustainability solutions – Forest Landscape Restoration in Madhya Pradesh Central India. Supported by The Nature Conservancy. (Grant No IND/GOI-03-2022/TERI SAS) . 2022- present
3. Sustainable livelihood on reclaimed open cast mines. A technology enabled integrated approach in the Indian Coal sector. Supported by Ministry of Coal Govt of India. 2016-2019.
4. Terminal Evaluation of implementation of Forest Plus in India. For USAID.2018.
5. CO PI to project on Conservation of Biodiversity and Ecosystem services of wetlands in relation to global change funded by Asia Pacific Network for Global Change Research (APN-GCR, Kobe Japan with National Institute of Ecology , New Delhi. 2014=-2015.
6. PI for the United Nations University (UNU), Japan project on impact of pollution on temperate forests of Himalaya India and montane forests of Sri Lanka with University of Jayewardenepura and University of Peradeniya, Govt of Sri Lanka. 2021- 2022.

Biodiversity and Protected Area Management Specialist at Integrated Development Division, Louis and Berger Group, Inc. (2012 –2014)

1. Representing the Commission on Environment , Economic and Social Programme (CEESP), IUCN, US, in delineation of the Key Biodiversity Areas (KBAs) by the IUCN and the lead in preparation of a global paper on participatory biodiversity conservation priority settings for the World Parks Congress scheduled in 2014.
2. For the Sikkim Biodiversity Conservation and Forest Management Project (SBFP) supported by JBIC, designed /conducted studies for:

- Rapid biodiversity surveys in different forest types of Sikkim for quantification of biodiversity.
- Ecological Studies on flagship species viz., the Red Panda, Musk Deer, Asiatic Black Bear, 9 critically endangered species of Rhododendrons and the Magnolias.
- Strengthening of the Forest Working Plan through studies on the impact of regulation of grazing in forests of Sikkim, impacts of climate change on biodiversity and Sustainable use of NTFPs (Non Timber Forest Products).

3. Prepared the dossier for nomination of Khangchendzongha National Park as a UNESCO World Heritage Site.

5. Technical guidance and mentoring to researchers undertaking biodiversity surveys on terrestrial, aquatic and agro-biodiversity.

6. Designed capacity building programme for park managers for aquatic protected areas for the Tamil Nadu Biodiversity Conservation and Greening Project State Forest Department, Govt. of Tamil Nadu and prepared action plan for re assessment of Critically Endangered and Endangered Species.

Head: Communities and Biodiversity and Forests and Carbon. Wildlife Trust of India (2010-2012)

1. Designed with Wildlife Institute of India, the framework for the State Bear Action Plans which were synthesized as a National Bear Action Plan.

2. Coordinated the livelihood component of the conservation projects related to conservation of Tibetan Antelope and landscapes of Greater Manas, Karbi Anglong Valmikinagar Tiger Reserve, Navegaon National Park and Nagzira Wildlife Sanctuary biological corridor.

3. Been the focal point for IFAW –WTI (International Fund for Animal Welfare- Wildlife Trust of India) at SBSTAA 15, Montreal Canada, (Subsidiary Body for Technical and Technological Advice) to CBD (Convention on Biological Diversity)

4. Lead the preparation of Project Design Document (PDD) for the REDD+ project in community forests of Garo Green Spine landscape in collaboration with World land Trust, UK, Indian Institute of Science Bangalore, North East Hill University and Indraprastha University.

5. Contributed to the India Case Study on sustainable use of Wild plants, Botanic Gardens Conservation International , UK.

Thematic Expert: Biodiversity, Indian Council of Forestry Research and , Govt. of India. (2009-2010)

For the Sustainable Land Ecosystem Country partnership project (SLEM – CPP) supported by Global Environmental Facility (GEF) , conducted the study on developing indicators for impact of land degradation on biodiversity of India. Served as Nodal Officer for the World Bank supported projects on Watershed restoration in the states of Uttarakhand and National Agriculture Innovation project (NAIP) Indian Council of Agricultural Research. Presented at Arizona State University, US

Served as Visiting faculty at Doon University to teach Biodiversity and Conservation post graduate students and at State Forest Services Academy , Forest Research Institute, India.

Head , Biodiversity Conservation Group, Winrock International India . (2007-2009)

1. Setting up the Biodiversity Conservation Division of the organization and prepared the strategic plan. Secured funding from IUCN, Department of Science and Technology, Govt. of India
2. Contributed to the global assessment of Rhododendrons at Singapore Botanical Gardens. As a follow up conducted the regional assessment of IUCN Conservation Criteria for Rhododendrons with the prize money received from Whitley Associate Award, 2009, Whitley Fund for Nature, UK.
3. Documentation of Community Conserved Areas of North East India for IUCN
4. Conducted a study on impact of biofuel plantations in arid and semi arid ecosystems in India for an FAO led European Union Project.
5. Evaluation of the Biodiversity Registers project of Nagaland Empowered People for Environment and Development (NEPED), Govt. of Nagaland.

Head , Forests and Biodiversity Programme, WWF-India (2001-2006)

1. Coordinated the major biodiversity conservation projects of the organization, Biodiversity 'Hotspots' Conservation Projects (supported by MacArthur Foundation, US)and Biodiversity Conservation Prioritisation (supported by Biodiversity Conservation Network and The Nature Conservancy, US and (Community Biodiversity Conservation Movement, WWF Sweden)
- 2.As Head, Forests and Biodiversity Programme of WWF- India (2001-2006), efforts contributed to the following national processes:
 - Developing a methodology for Rapid Assessment for Prioritisation of Protected Area Management with WWF International based on IUCN. The methodology was piloted in the states of Kerala and Tamil and Sikkim, in Western Ghats and Eastern Himalaya respectively.
 - Relevance of forest certification led to setting up of a committee to advise the Government on certification policy for India.
 - Shortcomings in the methodology of the setting priorities for biodiversity conservation in India was factored while preparation of the National Biodiversity Conservation Action Plan.
4. Secured funding from scientific institutions like Department of Science and Technology , Govt of India that snowballed to long term conservation programme for the organization. Department of Biotechnology, Govt. of India, International Development Research Center, Ford Foundation, WWF Japan and World Bank are some of the institutions from where I could secure funding.
5. Relevance of biodiversity significance of North East India , authored by me and my team for the World Bank remain a highly cited paper. The paper was prepared at the backdrop of a developmental plan to harness 65000 MW of Hydropower potential by Ministry of Development of North Eastern Region, India.
6. Delineation of the Western Arunachal Landscape, on the basis of spatial distribution of the Rhododendron Genera.
- 7.Served as the member of evaluation team for Karnataka Phase I Forestry Project supported by JICA.

8. Authored the Biodiversity Conservation component of Tripura Forestry and Poverty improvement project supported by JICA.

SELECTED PUBLICATIONS

In peer reviewed Journals

Dubey Lokesh and **Sudipto Chatterjee**. 2022. Assessing livelihood impact of forest carbon projects using sustainable livelihood framework. *Mitigation and Adaptation Strategies for Global Change*, 27 (49). <https://doi.org/10.1007/s11027-022-10022-9>

Sudipto Chatterjee, Manab Das and Charu Bhanot. 2022. Restoration of Forest and Associated Ecosystem Services of Backfilled Open Cast Coal Mines at Dhanbad, Jharkhand, India. *International Journal of Ecology and Environmental Sciences* 48: 627-638, <https://doi.org/10.55863/ijeec.2022.0627>

Sanchi Singh and **Sudipto Chatterjee**. 2022. Value chain analysis of *Rhododendron arboreum* squash 'buransh' as a non-timber forest product (NTFP) in Western Himalayas: Case study of Chamoli district, Uttarakhand in India. *Trees Forests and People*. Vol 7. <https://doi.org/10.1016/j.tfp.2022.100200>.

Charu Bhanot and **Sudipto Chatterjee**. 2022. Modelling Association of Waterfowl Conglomerations and Anthropogenic Multi-stressors at Najafgarh Jheel, Delhi, India. *International Journal of Ecology and Environmental Sciences* 48: 103-113, 2022.

Dubey L and **S. Chatterjee**. 2021., Carbon Finance for Community Forestry : Notional or Reality ? *Indian Forester* 147(1) : 12-19, 2021 DOI: 10.36808/if/2021/v147i1/154879

Christopher K Ellis, Claudia E Steadman, Masimo Viero, Mathew R Jones, **Sudipto Chatterjee**, Bishnu Prasad Pandey, Gothamine Weerakoon, Pat Wolseley, David Reay, Subodh Kumar, Marl Sutton .2021.. Estimating nitrogen risks to Himalayan forests, using thresholds for lichen indicators. *Biological Conservation*. 265. <https://doi.org/10.1016/j.biocon.2021.109401>

Sutton MA et al. 2020 Alkaline air: changing perspectives on nitrogen and air pollution in an ammonia-rich world. *Phil. Trans. R. Soc. A* 378: 20190315. <http://dx.doi.org/10.1098/rsta.2019.0315>

Sudipto Chatterjee. 2020.. Forest landscape restoration of reclaimed open cast mines in BCCL, Dhanbad and sustainable livelihood to communities. *Minetech*. Vol 41. (3) 56-58.

Sudipto Chatterjee. 2016. Science and Technology for Sustainable Development. YOJANA, December . Govt. of India. Pp 53-57.

Sudipto Chatterjee, Sonali Ghosh, Jayanta Sarma, S.K. Barik, B.K. Tewari and Kulen Das. 2011. Community Conserved Areas in North East India. *The Indian Forester*. Vol. 137. No. 8(a). August. Pp48-61.

Sudipto Chatterjee. 2008. Biodiversity Significance of North East India. *International Forestry Review*. Vol 10(2). 315.324

Chatterjee Sudipto. 1995. Global 'Hotspots' of Biodiversity. *Curent Science*. Vol 68, 12, 25 June

Chatterjee Sudipto and Soumen Dey . 1997. A preliminary survey of *Taxus baccata* var *wallichiana* in Tawang district of Arunachal Pradesh. The Indian Forester. Vol. 123, No.8 . August 1997.

Chatterjee Sudipto and A R K Sastry. 1998. Biodiversity 'Hotspots' Conservation Programme of WWF-India. International Journal of Ecology and Environmental Sciences. Vol. 23.No. 479-483.

Contribution as chapters in Books:

Sudipto Chatterjee, Manab Das, Himanshu Rai, Gangetic Plains in India, High on the air and water pollution map. 2022. In Manoj Kumar Shalini Dhyani (Eds). Forests Dynamics and Conservation, Science Innovation and Policies. Springer Singapore. ISBN 978-981-19-0070-9 ISBN 978-981-19-0071-6 (eBook) <https://doi.org/10.1007/978-981-19-0071-6>. Pp 83-106.

Sethi, Priya, Siddharth Edake and **Sudipto Chatterjee**. 2017. Loss of Biodiversity. In People Planet and Progress. Beyond 2015. TERI Global Sustainable Development Report. (Ed) P G Dhar Chakraborty. The Energy and Resources Institute. TERI Press. New Delhi. Pp 33 -44.

Sudipto Chatterjee, Prodyut Bhattacharya and Anand Kandya. 2017. A study on sustainable harvest of wild medicinal plants of Uttarakhand with a case study on lichens. In : Sustainable Forestry: Emerging Challenges. P. Bhattacharaya and A Kandya (Eds). IK International Publishing House Pvt. Ltd. New Delhi. Pp 163-193.

Sudipto Chatterjee and Manish Pande. 2012.Documentation of the traditional ecological knowledge, capacity building, needs of traditional institutions for sustainable utilization of natural resources in Sikkim and Darjeeling Hills, Eastern Himalaya. In: Kulen Chandra Das, Partha P. Das and Samarjit Ojha (Eds), Sustainable Natural Resource Management in North East India. Policies and practices. EBH Publishers. Guwahati. ISBN No. 9789380261546.Pp 160-209.

Indu Kumari, **Sudipto Chatterjee**, Shameem Ahmed and Arshad Hussain. 2012. Rehabilitation of bear dancers (Kalandars) in India – A case study. In :Sathyakumar, S, kaul, R, Ashraf, NVK, Mookerjee A and Menon V. National Bear Conservation Action Plan. Ministry of Environment and Forests, Wildlife Institute of India and Wildlife Trust of India. Pp 48-55.

Sudipto Chatterjee et. al. 2010. Setting Standards for Sustainable Harvest of Wild Medicinal Plants in Uttarakhand: A Case Study of Lichens. In: Community Based Biodiversity Conservation in Himalayas. Eds Y.Gokhale and A.K. Negi. TERI Press. New Delhi.

Liza Higgins- Zogib and **Sudipto Chatterjee**, 2005. Eastern Himalayas Sacred Gumpa Forests. In : Beyond Belief. Linking faiths and protected areas to support biodiversity conservation. WWF International, Switzerland and Alliance for Religion and Conservation, Manchester, UK.

Sudipto Chatterjee, Manish Pande, Govinda Pangging, Gitika Goswami, 2004. Carvers, Conservation and Certification in India. In: Carving a sustainable Future, Editors Tony Cunningham and Bruce Cambell, Earthscan Publishers, UK .

Jha, M. H.Vardhan, **S.Chatterjee**, K.Kumar and A.R.K. Sastry. 1998. Status of 'Orans' (Sacred Groves) in Peepasar and Khejarli Villages in Rajasthan. Editors:P.S. Ramakrishnan, K.G. Saxena and U.M. Saxena. UNESCO and Oxford and IBH Publishing Co .Pvt .Ltd, New Delhi

Sastry ARK and **Sudipto Chatterjee**. Prioritisation of Medicinal Plants of India. 2000. In Singh et al (eds) Setting Biodiversity Conservation Priorities for India, WWF-India, New Delhi.

Rana R.S. and **Sudipto Chatterjee**, 2000. Prioritisation of Wild Relatives of Crop Plants of India and domesticated animals. In: In Singh et al (eds) Setting Biodiversity Conservation Priorities for India, WWF-India, New Delhi.

Sudipto Chatterjee and A.R.K. Sastry 2001. Initiatives of WWF-India in conservation of tropical forest ecosystems in the Western Ghats and Eastern Himalaya in India .In: Proceedings of the International Symposium- Tropical Forestry Research- Challenges in the New Millennium. Kerala Forest Research Institute, Peechi Kerala.

Books

Chatterjee Sudipto and ARK Sastry. **2011**. Conservation Planning for Rhododendrons of Eastern Himalaya. Lambert and Academic Publishing Gm BH. Germany. ISBN (978-3-8443-1554-7.

Malhotra K.C., S. Chatterjee, Yogesh Gokhale and Sanjeeva Srivastava. Sacred Groves of India.- An overview. **2006**. Aryan Publishers, New Delhi

Semwal, R. L., Chatterjee, S., Punetha, J.C., Pradhan, S., Dutta, P., Soni, Sudha., Sharma, G., Singh, V.P., Malaya, A. **2003**. Forest Fires in India – Lessons from case studies. WWF-India, New Delhi.

Chatterjee, S., Pande M., Semwal, R. L., Kumar, K., S., Dutta, P., Soni, Sudha., Pangging,. Relevance of Certification to the Wood Carving Industry in India. **2002** WWF-India, New Delhi.

Chatterjee, S., Pande M., Ranthambhor Revisited – An Evaluation of WWF-India's Ranthambhor Eco-development Project. **2002**, WWF-India, New Delhi.

Chatterjee Sudipto, S.Dey, R.S. Rana, A.R K Sastry. **2000**. Conservation and Sustainable Use of Natural Bio-resources: A case study of Apatanis in Arunachal Pradesh. World Wide Fund for Nature-India, New Delhi.

Contribution to Technical Reports:

Sudipto Chatterjee, Manab Das and Sapna Narula.(Eds).**2019**. Sustainable livelihood on reclaimed open cast mines. A technology enabled report integrated approach in the Indian Coal sector. TERI School of Advanced Studies, New Delhi and Bharat Coking Coal Limited. Dhanbad, Jharkhand. India.P140.

Gopal Brij, A.P. Sharma, S. Sharma, **S.Chatterjee**, DK Maothia, MA Hassan, K.S. Rapo. **2016**. Capacity Building in the Assessment of Biodiversity and Ecosystem Services for Conserving Wetlands for the Future. :<https://www.researchgate.net/publication/327745632>. APN Project Reference: CBA2014-05NSY(B&ES)-Gopal / Received: January 2016 / Published online: March 2016 Available online at APN E-Lib: <http://www.apn-gcr.org/resources>

India case Study. In : Oldfield Sara and Martin Jenkins. **2012**. Wildflora for improved livelihoods. Case studies from Brazil. China, India and Mexico. Botanic Gardens Conservation International. UK. P 38.

Neema Pathak Broome and Persis Taraporewala with Mashqura Fareedi, **Sudipto Chatterjee**, Sonali Ghosh, Jayanta Sharma, S.K. Barik, B.K Tiwari and Kulen Das. **2012**. Understanding conservation with livelihood security values. In: Bhatt, S., N. Pathak Broome., A. Kothari and T. Balasinorwala. 2012. Community Conserved Areas in South Asia. Case Studies and Analyses from Bangladesh, India, Nepal, Pakistan, and Sri Lanka. Kalpavriksh, New Delhi. P 91.

3. **Sudipto Chatterjee** and Manish Pande. 2012. Documentation of the traditional ecological knowledge, capacity building, needs of traditional institutions for sustainable utilization of natural resources in Sikkim and Darjeeling Hills, Eastern Himalaya. In: Kulen Chandra Das, Partha P. Das and Samarjit Ojha (Eds), Sustainable Natural Resource Management in North East India. Policies and practices. EBH Publishers. Guwahati. ISBN No. 9789380261546. Pp 160-209.

4. Indu Kumari, **Sudipto Chatterjee**, Shameem Ahmed and Arshad Hussain. 2012. Rehabilitation of bear dancers (Kalandars) in India – A case study. In :Sathyakumar, S, Kaul, R, Ashraf, NVK, Mookerjee A and Menon V. National Bear Conservation Action Plan. Ministry of Environment and Forests, Wildlife Institute of India and Wildlife Trust of India. Pp 48-55.

5. Gibbs Douglas, David Chamberlain and George Argent. 2011. The Redlist of Rhododendrons. Botanic Gardens Conservation International. UK. P 131.

MAJOR TRAININGS RECEIVED

Trainings on Open Source GIS and Python by Spatial Thoughts . 2021

Training on Machine Learning by EduX. 2020.

Reporting requirement for United Nation Convention on Combating Desertification (UNCCD) by Conservation International , US and organized by UNCCD, Bonne and Ministry of Environment Forests and Climate Change, Govt. of India. 2018.

Google Earth Engine. Google earth US and TERI School of Advanced Studies 2018

Open Source GIS: QGIS, TERI University, 2016. 2021

DNA barcoding by Wildlife Institute of India and Zoological Survey of India. 2014.

Gas and Liquid Chromatography by The Energy Resources Institute (TERI). 2014.

Project Cycle Management by EU and WWF-International, Monitoring and Evaluation by DFID and WWF-International

Geographical Information systems by the National Institute of Oceanography, Goa. India.2008.

Mathematical Modeling techniques by International Institute for Applied Systems Analysis, Austria.at IARI, New Delhi. 2007.

Measures of success for Sustainable Forest Management under the World Bank –WWF Alliance. 'Ecoregional Action Plan' in Kunming, organized by WWF-US

Proposal writing for Global Environment Facility (GEF) at Lucknow by UNDP and Ministry of Environment and Forests, Government of India.

Funding raising opportunities through Government Aid Agencies (GAA) by WWF-International at Switzerland in December 2002 helped understanding funding priorities and mechanisms by government aid agencies.

Monitoring and Evaluation of Projects by WWF-International, Kathmandu

Biological Monitoring of Forests by University College London, British Council Division and Wildlife Institute of India at Dehradun

MEMBERSHIPS:

Member, WCPA (World Commission on Protected Area), IUCN (International Union for Conservation of Nature)

Member Core Working Group. For 24th and 25th National Children Science Congress. 2016-17 .

Member Global Tree Specialist Group, IUCN.

Life Member, Indian Society for Plant Genetic Resources. India

Life Member, Indian Society for Remote Sensing, India

Member, National Institute of Ecology, New Delhi

REFERENCES

Vice Chancellor
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Botanical Garden Conservation International, UK
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Shri A R K Sastry
EX Joint Director, Botanical Survey of India
arksastry@yahoo.com

OTHER ACCOMPLISHMENTS

Invited as Resource Person for lectures at:

- Nalanda University, Govt. of India
- Kunming Institute of Botany, China.
- IUCN, Bangkok, Thailand
- World Society for Protection of Animals (WSPA). Thailand

Worked with CIFOR, Indonesia on Wood certification project at Malindi Kenya.

Chaired sub session on Key Biodiversity Area Documentation, Smithsonian Conservation Biology Institute, Virginia, US. 2012

Served as panellist at International Biofuel Conference, Burkina Faso, Africa. 2009

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience,

Name :

Signature: