Dr. Sayan Bhattacharya

Designation:
Assistant Professor,
School of Ecology and Environment Studies,
Nalanda University, India.

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FA-9, Deshbandhunagar, Baguiati,
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Resume Summary

Research areas:

Environmental Biotechnology; Environmental Geosciences; Toxicology and Environmental Health; Sustainable Development.

Educational qualification:

2013: PhD. Environmental Biotechnology, University of Calcutta, India.
2006: MSc. Environmental Science, University of Calcutta, India.
2004: B.Sc. (Hons.) Zoology, University of Calcutta, India.

Positions:

2015-Present: Assistant Professor, Nalanda University, Bihar.
2013-2015: Assistant Professor, Department of Environmental Studies, Rabindra Bharati University, West Bengal.

2012-2013: Postdoctoral research in Nanotechnology, Department of Chemistry and Biochemistry, Presidency University.
2007-2012: Research Fellow, Department of Environmental Science, University of Calcutta.
2011-2013: Visiting Faculty, Department of Environmental Science, Asutosh College, Kolkata.
2014-2015: Visiting Faculty, Department of Biotechnology, Visva Bharati University.
2011-2015: Visiting faculty in Environmental History, Post Graduate Course of Buddhist Studies, University of Calcutta.
2009-2010: Visiting faculty, M.Sc. in Environmental Studies, Vidyasagar University.
2005-2006: Project Intern, Crystallography and Molecular Biology Division, Saha Institute of Nuclear Physics, Kolkata.

Publications:

Peer reviewed international journal papers: 32.
Book Chapters with ISBN number: 8.
International conference presentation: 45.
Best paper awards in International conferences: 2.
International conference travel grants awards: 2.
Google scholar citations: 319.
Google scholar H-Index: 7.

Lectures delivered:

University College London, United Kingdom (2016).
University of Oxford, United Kingdom (2017).
University of Indonesia, Indonesia (2016, 2017).
European Water Network Association, Greece (2017).
Vietnam National University, Hanoi, Vietnam (2018).
Indian Statistical Institute, India (2013, 2014).
Jadavpur University, India (2014).
Banaras Hindu University, India (2017).

Poster Presentation:

Dalton 2018, Royal Society of Chemistry, University of Warwick, UK, 3rd to 5th April, 2018.

Extra-Curricular Activities:

Photography: Avid photographer and photo-journalist with over 600 photographs published in a host of national and international magazines including National Geographic, Lonely Planet (BBC), Outlook Traveler, Asian Photography, Better Photography, Camerapixo (London).
Organized 6 independent solo photography exhibitions in Kolkata, India (2013-2018).

Hindustani Classical Music (Vocal): Passionate about music and received advanced training in Hindustani Classical Music (Vocals).

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Education:

- Post-Doctoral research in Nanotechnology (*Synthesis, characterization and heavy metal sorption behaviour of mixed oxide nanomaterials*) from Department of Chemistry and Biochemistry, Presidency University (September, 2012 to September, 2013) under supervision of Prof. Uday Chand Ghosh.

- Awarded Degree of Ph.D. by the University of Calcutta under supervision of Prof. Aniruddha Mukhopadhyay and Prof. Dhrubajyoti Chattopadhyay. Title of the thesis: "*Arsenic contamination in Nadia, West Bengal with special reference to the studies on its bioaccumulation and remediation through adsorption*" in 2013.

- Degree of M.Sc. in Environmental Sciences from the University of Calcutta with 1st Division in 2006.

- Degree of B.Sc.(Hons.) in Zoology from the University of Calcutta with 2nd Division in 2004.

- Passed Higher Secondary Examination from West Bengal Higher Secondary Education Board, Bidhannagar Govt. High School with 76.4% in 2000.

- Passed Secondary Examination from West Bengal Secondary Education Board, Bidhannagar Govt. High School with 84.4% in 1998.

Project work:

- Completed project work entitled *'Heat Shock Proteins: Over expressions in response to Stress and in Malignancy'* (Project for partial fulfillment of M.Sc. Part II examination) under supervision of Prof. Sanghamitra Raha and Prof. Partha Saha, Crystallography and Molecular Biology Division, Saha Institute of Nuclear Physics, Kolkata, 2005.

- Completed project work entitled *'Study of the Biodiversity and Waste Management Policies in East Kolkata Wetland'* Organized by Department of Environmental science, University of Calcutta, 2006.

- Completed project work entitled *'Field studies on the Coastal Ecosystem, Deciduous Forest, Lotic Ecosystem and their Biodiversity at Vizag and Araku Valley, Andhra Pradesh, India.'* Bidhannagar College, Kolkata, 2002.

Research Initiatives:

- Selected for the European Water Research Association Grant as "Prominent Scientist from Developing Nations" in 10th World Congress on Water Resources and Environment, 5th to 9th July, 2017, Athens, Greece.

- Received travel award for delivering lecture in the 1st Asian Researcher Symposium at University of Indonesia, Jakarta, Indonesia (25th-27th April, 2016).

- Won the Best Paper Award for the research initiative entitled "*Synthesis, characterization and Arsenic (V) sorption Received behavior of Cerium Aluminum nanostructured mixed oxide*" in the National seminar on Thin Films and MEMS Science and Technology, Department of Instrumentation Science, Jadavpur University, (21st-22nd March, 2014).

- Won the Best Poster Award in International Conference on Hydrology and Meteorology, 2014 in Omics Group Conference, HICC Complex, Hyderabad, (15th-16th September, 2014).

- Undertaken several review and editing endeavours including holding the position of Guest Editor for the Scientific World Journal, Hindwaii, (*special issue on "Determination of pollutants from environmental samples*") and editing an undergraduate text book on Environmental Sciences, published by McMillan Publishing House, Medicine and science section, New Delhi.

- Won the Travel Award in Young Researcher category in ICONSAT-2012 (International Conference on Nanoscience and Nanotechnology), Department of Science and Technology, Govt. of India, Hyderabad, (20th -23rd January, 2012)

- Awarded the UGC Research Fellowship in Science for Meritorious Students (RFSMS) (2007-2012).

Invited Lectures:

- Specially invited to deliver lecture in the International Conference on **Sustainable Natural Resource Management:** *from Science to Practice(SNRMSP)* during 12-13thJanuary,2017, organized by Institute of Agricultural Sciences, Banaras Hindu University, India.

- Participated as an expert on water pollution and remediation in DD Basundhara Programme, Doordarshan (Prasar Bharti) on 14th March, 2016 from 4 PM. To 5 pm.

- Specially invited to deliver lecture on *Arsenic contamination in Bengal Delta* in Muralidhar College, Kolkata (21st-22nd March, 2014).

- Specially invited to deliver lecture on *Environmental, economic and health perspectives of arsenic contamination in India*, at the Seminar on Current Perspectives on Natural Resource Management, Lalbaba College, Belur, West Bengal, on 26th February, 2013.

Peer-reviewed Journal Publications:

- Kaushik Gupta, Sayan Bhattacharya, Harishankar Biswas, Jagannath Dutta, Uday Chand Ghosha, Aniruddha Mukhopadhyay, Dhrubajyoti Chattopadhyay, Nihar Ranjan Roy (2011). *Ceria supported manganese oxide crystalline nanoparticles agglomerate as adsorbent: synthesis, characterization and As(V)-sorption behavior*. Chemical Engineering Journal, Volume 172, 219-229.

- Sayan Bhattacharya, Kaushik Gupta, Sushanta Debnath, Uday Chand Ghosh, Dhrubajyoti Chattopadhyay and Aniruddha Mukhopadhyay (2012). *Arsenic bioaccumulation in edible plants and subsequent transmission through food chain in Bengal basin: with special reference to rice.* Toxicological and Environmental Chemistry, Volume 94(3), 429-441.

- Kaushik Gupta, Sayan Bhattacharya, Dhrubajyoti Chattopadhyay, Aniruddha Mukhopadhyay, Arjun Maity and Uday Chand Ghosh (2012). *Arsenic(III) Sorption Behavior of Ceria Associated Manganese Oxide Nanoparticles.* Journal of Colloid and Interface Science, Volume 377, 269-276.

- Sayan Bhattacharya, Gunjan Guha, Dhrubajyoti Chattopadhyay, Aniruddha Mukhopadhyay, Uday Chand Ghosh, Purnendu Dasgupta, Mrinal Sengupta (2013). *Co-deposition and distribution of Arsenic and oxidizable organic* carbon *in the Sedimentary Basin of West Bengal, India.* Journal of analytical science and technology, Vol. 4(11): 1-5.

- Abir Ghosh, Tina Basu, Biswaranjan Manna, Sayan Bhattacharya, Uday Chand Ghosh, Krishna Biswas (2015). *Synthesis of a nanocomposite adsorbent with high adsorptive potential and its application for abatement of chromium (VI) from aqueous stream.* Journal of Environmental Chemical Engineering, Vol. 3: 565–573.

- Sayan Bhattacharya, Navonil D. Sarkar, Shamayita Banerjee, Priya Banerjee, Shamayita Banerjee, Sohini Mukherjee, Dhrubajyoti Chattopadhyay and Aniruddha Mukhopadhyay (2012). *Effects of Arsenic toxicity on germination, seedling growth and Peroxidase activity in Chickpea seeds.* International Journal of Agriculture and Food Science, Vol. 2(4): 131-137.

- Sayan Bhattacharya, Antara Ganguli, Sreedipa Bose and Aniruddha Mukhopadhyay (2012*). Biodiversity, Traditional Practices and Sustainability Issues of East Kolkata Wetlands: A significance Ramsar Site of West Bengal, India.* Research and reviews in Biosciences, Vol. 6(11), 340-347. (ISSN: 0974–7532).

- Abhishek Dhar, Sayan Bhattacharya and Uttam Roychowdhuri (2012). *The hydroisomerization of Petrolium Naphtha by Pt-Doped g-Alumina Catalyst: Synthesis, Characterization and Mechanistic Study.* International Journal of Chemical and Analytical Sciences (Elsevier), Vol. 3(12): 1634-1638. (ISSN: 0976-1209).

- Sayan Bhattacharya and Aniruddha Mukhopadhyay (2013). *Changing dimensions of food security in a globalized world: A review of the perspectives for environment, economy and health.* International Research Journal in Environmental Sciences, Vol. 2(3): 1-7. (ISSN: 2319-1414).

- Sayan Bhattacharya, Antara Ganguli, Aniruddha Mukhopadhyay, Uday Chand Ghosh and Dhrubajyoti Chattopadhyay (2013). *Impacts of genetically modified foods on environment, economy and health: A comprehensive review.* International Journal of Environmental Biology, Vol. 3(2): 64-70 (ISSN: 2277-386X).

- Sayan Bhattacharya, Indranil Saha, Dhrubajyoti Chattopadhyay, Aniruddha Mukhopadhyay, Uday Chand Ghosh, Debashish Chatterjee (2013). *Role of nanotechnology in water treatment and purification: Potential applications and implications.* International Journal of Chemical Science and Technology, Vol. 3(3): 59-64. (ISSN: 2249-8532).

- Sayan Bhattacharya (2014). *Bioprospecting, biopiracy and food security in India: The emerging sides of neoliberalism.* International Letters of Social and Humanistic Sciences, Vol. 12, 49-56 (ISSN: 2300-2697).

- Sayan Bhattacharya, Arkajyoti Shome, Subrato Sarkar, Debayan Purkait, Uday Chand Ghosh (2014). *Socio-Environmental survey of two ecologically important hamlets of North Bengal, India.* International Letters of Social and Humanistic Sciences, Vol. 17, 102-118 (ISSN: 2300-2697).

- Sayan Bhattacharya (2014). *Forest and biodiversity conservation in ancient Indian culture: A review based on old texts and archaeological evidences.* International Letters of Social and Humanistic Sciences, Vol. 19, 35-46 (ISSN: 2300-2697).

- Sayan Bhattacharya, Gunjan Guha, Kaushik Gupta, Dhrubajyoti Chattopadhyay, Aniruddha Mukhopadhyay, Uday Chand Ghosh (2014). *Trend of arsenic pollution and subsequent bioaccumulation in Oryza sativa and Corchorus capsularis in Bengal Delta.* International Letters of Natural Sciences, Vol. 16, 1-9 (ISSN: 2300-9675).

- Sayan Bhattacharya and Uday Chand Ghosh (2015). *Environmental, economic and health perspectives of arsenic toxicity in Bengal Delta.* World Scientific News, Vol. 4: 111-139 (ISSN: 2392-2192).

- Sayan Bhattacharya and Ayantika Banerjee (2015). *Water privatization in developing countries: Principles, implementations and socio-economic consequences.* World Scientific News, Vol. 4: 17-31 (ISSN: 2392-2192).

- Sayan Bhattacharya, Arkajyoti Shome, Abhishek Dutta, Gourab Majumdar, Raktim Banerjee (2015). *Environmental, economic and agricultural surveys of an ecologically important forest edge hamlet in Darjeeling district, West Bengal, India.* World Scientific News, Vol. 5: 66-80 (ISSN: 2392-2192).

- Sayan Bhattacharya, Rimpa Maity, Gour Sarkar, Goutam Ghosh, Debasri Mukherjee and Chandrayee Mukhopadhyay (2016). *Socio-Environmental survey of an ecologically important forest edge hamlet in Buxa Tiger Reserve, West Bengal, India.* International Letters of Natural Sciences, Vol. 52: 67-83. (ISSN: 2300-9675).

- Sayan Bhattacharya, Kaushik Gupta, Uday Chand Ghosh (2017). *Synthesis, characterization and trivalent arsenic sorption potential of Ce-Al nanostructured mixed oxide.* IOP Conference Series: Material Science and Engineering, Vol. 188: 1-9 (ISSN: 1757-8990).

- Sayan Bhattacharya (2017). *Application of nanostructured materials in fluoride removal from contaminated groundwater*. European water, Vol. 58: 87-93 (ISSN: 1105-7580).

- Sayan Bhattacharya, Sudipta De, Arkajyoti Shome, Abhishek Dutta (2019). *Socio-environmental survey of a forest hamlet proximate to Neora Valley National Park in the Eastern Himalayas, India*. Indonesian Journal of Environmental Management and Sustainability, Vol. 3: 1-13.

- Abir Ghosh, Suparna Paul, Sayan Bhattacharya, Palani Sasikumar, Krishna Biswas, Uday Chand Ghosh (2019). *Calcium ion incorporated hydrous iron(III) oxide: synthesis, characterization, and property exploitation towards water remediation from arsenite and fluoride.* Environmental Science and Pollution Research, Vol. 26(5): 4618-4632.

Book Chapters:

- Sayan Bhattacharya, Punarbasu Chaudhuri and Aniruddha Mukhopadhyay (2011). *Hydraulic Structures and Water Management Systems in Ancient India.* In: Aspects of Indian History and Culture. Kaveri Books, New Delhi, India, pp. 61-67. ISBN No. 9788174791344.

- Sayan Bhattacharya and Aniruddha Mukhopadhyay (2011). *Development and Environmental Issues vis-à-vis Current Perspectives of Human Rights.* In: Human rights

and the Third World: Issues and Discourses. Lexington Books, Rowman and Littlefield Publishing Group, New York, USA, pp. 59-80. ISBN No. 9780739177358.

- Sayan Bhattacharya and Aniruddha Mukhopadhyay (2011). *Global Warming and Climate Change: Causes, Effects, Adaptations and Mitigations.* In: Climate Change: Man and Environment, Daya Publishing House, New Delhi, India, pp. 7-23. ISBN No. 978-81-7035-771-1.

- Sayan Bhattacharya, Dhrubajyoti Chattopadhyay and Aniruddha Mukhopadhyay (2012). *Ecological and environmental introspection of Kautilya's Arthasastra: Modern relevance and future prospects.* In: *History in Literature- Literature as History*. Levant Books, Kolkata, India, pp. 69-76. ISBN No. 978-93-80663-50-0.

- Sayan Bhattacharya (2016). *Socio-Environmental survey and sustainable management of a forest edge mountain hamlet in Darjeeling district, India.* Proceedings of the 1st Asian Researcher Symposium at University of Indonesia, Jakarta, Indonesia (25th-27th April, 2016), pp. 549-564. ISBN No. 978-979-8972-63-8.

- Sayan Bhattacharya (2017). *Environmental Survey and Photographic Documentation of a Forest Edge Hamlet Situated in Buxa Tiger Reserve, India.* Proceedings of 7th International Scientific Forum, University of Oxford, United Kingdom (7th to 9th February, 2017), pp. 336-360. ISBN No. 978-608-4642-55-8.

- Sayan Bhattacharya, Arkajyoti Shome, Abhishek Dutta (2017). *Environmental Survey and photographic documentation of a forest edge hamlet situated in the Eastern Himalayas, India.* Proceedings of the Scholar Summit 2017 at University of Indonesia, Jakarta, Indonesia (10th-12th October, 2017), pp. 194-210. ISBN No. 978-979-8972-87-4.

- Sayan Bhattacharya, Arkajyoti Shome (2017). *Biodiversity survey and photographic documentation of four protected areas situated in the Eastern Himalayas in India*. Proceedings of the Scholar Summit 2017 at University of Indonesia, Jakarta, Indonesia (10th-12th October, 2017), pp. 211-223. ISBN No. 978-979-8972-87-4.

International Conference Proceedings:

- Sayan Bhattacharya, Tina Basu, Kaushik Gupta, Krishna Biswas, Dhrubajyoti Chattopadhyay, Uday Chand Ghosh and Aniruddha Mukhopadhayay (2010). *Estimation and removal of arsenic contaminated groundwater using NHICO adsorbent.* Proceedings of International Conference on Frontiers in Biological Sciences, Department of Life Sciences, National Institute of Technology, Rourkela, India. (1st October to 3rd October), pp. 184.

- Sayan Bhattacharya, Moumit Roy Goswami, Shamayita Banerjee, Priya Banerjee, Shirshendu Ghosh, Dhrubajyoti Chattopadhyay and Aniruddha Mukhpadhyay (2011).

Effects of arsenic toxicity on germination, seedling growth and peroxidase activity in gram seeds. Proceedings of World Congress on Biotechnology, Hyderabad, India. organized by OMICS Publishing Group, USA. Venue: HICC complex, Hyderabad, India. 21-23rd March, pp. 591.

- Sayan Bhattacharya, Sohini Mukherjee, Antara Ganguli, Rakesh Das, Dhrubajyoti Chattopadhyay and Aniruddha Mukhopadhyay (2012). *Effects of trivalent arsenic toxicity on germination, seedling growth and enzyme activity in Vigna radiata.* Proceedings of 3rd World Congress on Biotechnology, Hyderabad, India, organized by OMICS Publishing Group, USA. Venue: HICC complex, Hyderabad, India. (13th-15th September, 2012,) pp. 177.

- Sayan Bhattacharya, Moumit Roy Goswami, Riddhi Mahansaria, Gipsy Siddhanta, Prajna Dutta, Monalisa Purkait, Dhrubajyoti Chattopadhyay and Aniruddha Mukhopadhyay (2012). *Effects of Pentavalent Arsenic toxicity on Germination, Seedling growth and Peroxidase activity in Black Eyed Bean.* Proceedings of 3rd World Congress on Biotechnology, Hyderabad, India. organized by OMICS Publishing Group, USA. Venue: HICC complex, Hyderabad, India. (13-15th September, 2012), pp. 338.

- Sayan Bhattacharya, Gunjan Guha, Kaushik Gupta, Dhrubajyoti Chattopadhyay, Aniruddha Mukhopadhyay, and Uday Chand Ghosh (2013). *Trend of arsenic pollution and subsequent bioaccumulation in Oryza sativa and Corchorus capsularis in Bengal Delta.* Proceedings of "International Congress on Environmental Research" *organized by Journal of Environmental Research and Development. Maulana Azad College, Aurangabad, (19th to 21st December, 2013), pp. 24. (ISBN: 978-81-909379-6-2).*

- Bhattacharya, S., Shome, A., Majumder, G., Dutta, A., Banerjee, R. (2015). *Environmental, economic and agricultural surveys of an ecologically important forest hamlet in Darjeeling district, West Bengal, India.* Proceedings of World Congress of Biotechnology in *New Delhi, India* (5th-7th October, 2015), pp. 187.

- Bhattacharya, S. (2016). *Application of nanostructured materials in arsenic removal from contaminated water*. Proceedings of The International Symposium on Functional Materials, University of Indonesia, *Bali*, *Indonesia*, 26th to 27th July, 2016, pp. 22.

- Bhattacharya, S., Gupta, K., Ghosh, U.C. (2016). *Synthesis, characterization and arsenic (III) sorption capacity of cerium aluminium nanostructured mixed oxide.* Proceedings of The International Symposium on Functional Materials, *University of Indonesia*, *Bali, Indonesia*, 26th to 27th July, 2016, pp. 23.

- Bhattacharya, S. (2017). *Application of nanostructured materials in fluoride removal from contaminated groundwater.* Proceedings of the 10th World Congress of EWRA 'Panta Rhei', Athens, Greece, 5-9 July 2017, pp. 1093-1099.

International Conferences Attended:

- Delivered lecture in Hanoi Forum 2018 at Vietnam National University, November 8-10, 2018.

- Delivered two lectures in the Scholar Summit 2017 at University of Indonesia, Jakarta, Indonesia (10^{th}-12^{th} October, 2017).

- Delivered lecture in 10^{th} World Congress of EWRA (European Water Resources Association) 'Panta Rhei', Athens, Greece, 5-9 July 2017.

- Delivered lecture in 7^{th} International Scientific Forum 2017 at University of Oxford, 7^{th} to 9^{th} February, 2017.

- Delivered lecture in International Conference on Photography in Academic Research in Department of Archaeology, University College London, United Kingdom (8^{th} – 9^{th} September, 2016).

- Delivered lecture in The International Symposium on Functional Materials, Organized by Mathematics and Natural Science Department, University of Indonesia in Bali, Indonesia, 26^{th} to 27^{th} July, 2016.

- Delivered lecture in 1^{st} Asian Researcher Symposium at University of Indonesia, Jakarta, Indonesia (25^{th}-27^{th} April, 2016).

- Delivered lecture in "International Conference on Hydrology and Meteorology 2014" Omics Group Conference, HICC Complex, Hyderabad, (15^{th}-16^{th} September, 2014).

- Delivered lecture in International Biodiversity convention 2013 organized by Indian Statistical Institute and Bio-mathematical Society of India, Kolkata, (14^{th}-16^{th} March, 2013).

- Delivered lecture in 1^{st} International Workshop on Nanomaterials: Engineering Photon and Photon Transport organized by Jadavpur University, UGC, DST, AOARD, Kolkata,(14^{th}-15^{th} December, 2012).

- Delivered lecture in "VI World Aqua Congress 2012" organized by Aqua Foundation, Ministry of Urban Development, Ministry of Earth Sciences and Ministry of Home Affairs, Govt. of India. Venue: India Habitat Centre, New Delhi, India, (28^{th}-30^{th} November, 2012).

- Delivered lecture in '3rd World Congress on Biotechnology' organized by OMICS Publishing Group, USA. Venue: HICC complex, Hyderabad, India. (13th-15th September, 2012).

- Presented paper in ICONSAT-2012 (International conference on Nanoscience and Technology) organized by ARCI and Department of Science and Technology, Govt. of India. Venue: Hotel Taj Krishna, Hyderabad, India. (20th-23rd January, 2012).

- Delivered lecture in "V World Aqua Congress 2011" organized by Aqua Foundation, IPCC, UNESCO, CSIR, ICAR and Govt. of India. Venue: India Habitat Centre, New Delhi, India. (16th-18th November, 2011).

- Presented paper in 'World Congress on Biotechnology' organized by OMICS Publishing Group, USA. Venue: HICC complex, Hyderabad, India. (21st -23rd March, 2011).

- Delivered lecture in 'Proceedings of Forty Sixth Annual Conventions of Chemists 2009 and International Conference on Recent Research Trends in Chemical Sciences' organized by Indian Chemical Society. Venue: Vellore Institute of Technology, Tamil Nadu, India. (2nd-6th December, 2009).

National Workshops Attended:

- Participated in National Workshop on "Application of Radiation in Physical, Chemical and Life Sciences" organized by University of Calcutta and UGC-DAE in Centre for Nanoscience and Nanotechnology, University of Calcutta, (4th-6th November, 2013).

- Participated and presented paper in "DST National Workshop on Green Chemistry" organized by Sripat Singh College, Murshidabad, India, (27th-28th December, 2012).

- Participated in 'Workshop on Arsenic Contamination in Groundwater: Source, Migration and Mitigation' organized by IISWBM, Kolkata and DBT, Govt. of India, (23rd-24th July, 2010).

Teaching Experiences:

- Assistant Professor, School of Ecology and Environment Studies, Nalanda University, Rajgir, India (September 2015-present).

- Faculty (Assistant Professor) at the Department of Environmental Studies, Rabindra Bharati University, Kolkata (November 2013- September 2015).

- Visiting Faculty, Department of Environmental Science, Asutosh College, Kolkata (July 2011- October 2013).

- Visiting Faculty, Department of Biotechnology, Visva Bharati University (2014-2015).

- Visiting faculty in Environmental History, Post Graduate Course of Buddhist Studies, University of Calcutta (2011-2015).

- Visiting faculty, Post Graduate Course of Environmental Studies, Vidyasagar University (2009-2010).

Dissertation supervision (Selected) (MSc/MA):

- Principal supervisor of the thesis entitled *"The emerging scenario of water crisis in India with special reference to water pricing and privatization of water"* (Dissertation submitted by Mr. Subir Charkraborti for partial fulfillment of the M.A. degree from University of Calcutta) in 2011.

- Principal supervisor of the thesis entitled *"Effects of idol immersion in different water bodies of India"* (Dissertation submitted by Ms. Arpita Bera for partial fulfillment of the M.A. degree in Environmental Studies, Rabindra Bharati University) in 2014.

- Principal supervisor of the thesis entitled *"Socio-Environmental survey of two ecologically important hamlets of North Bengal, India"* (Dissertation submitted by Mr. Subrato Sarkar for partial fulfillment of the M.A. degree in Environmental Studies, Rabindra Bharati University) in 2014.

- Principal supervisor of the thesis entitled *"Ecological visions of Rabindranath Tagore"* (Dissertation submitted by Ms. Negar Sanjari Far for partial fulfilment of the M.A. degree in Environmental Studies, Rabindra Bharati University) in 2014.

- Principal supervisor of the thesis entitled *"Documentation of bioindicator species in environmental monitoring"* (Dissertation submitted by Ms. Neha Mukherjee for partial fulfillment of the M.A. degree in Environmental Studies, Rabindra Bharati University) in 2014.

- Principal Supervisor of the thesis entitled *"A report on value chain for rice in East Champaran district and qualitative and quantitative losses in the supply chain"* (Dissertation submitted by Mr. Anshuman Sekhar for partial fulfillment of the M.Sc. degree in Ecology and Environment Studies, Nalanda University) in 2016.

- Principal Supervisor of the thesis entitled *"Analysis of disaster management in Nalanda District: A case study of Karai Parsurai Block floods"* (Dissertation submitted by Mr. Mankanwaldeep Rampal for partial fulfillment of the M.Sc. degree in Ecology and Environment Studies, Nalanda University) in 2017.

- Principal Supervisor of the thesis entitled *"Human-wildlife conflict: Crop depredation and its socio-economic impact to the famers of Uesu Block, Haa district, Bhutan"* (Dissertation submitted by Mr. Tashi Tenzin for partial fulfillment of the M.Sc. degree in Ecology and Environment Studies, Nalanda University) in 2018.

- Principal Supervisor of the thesis entitled *"Traditional ecological knowledge and environmental conservation in indigenous communities: A study in Bolpur, India"* (Dissertation submitted by Mr. Arijit Banerjee for partial fulfillment of the M.Sc. degree in Ecology and Environment Studies, Nalanda University) in 2018.