

Dr. Pallabi Borah

Brief Curriculum Vitae

Professional Goal

I am keen to pursue my career as a teacher with a strong focus in scientific research on issues connecting sciences with society.

Academic Credentials

2014-2018: PhD from Tezpur University, Assam, India

2011-2013: M.Sc. Environmental Science (CGPA- 8.59; 85.90 %) from Tezpur University, Assam, India

2008-2011: B.Sc. Botany (Major) (69.20 %), First Class with Distinction, Cotton College (Gauhati University), Assam, India

2008: Higher Secondary (75.60 %), First Class from Salt Brook Academy, Dibrugarh, Assam, India

2006: HSLC (81 %), First Class from Govt. Higher Secondary School, Changlang (Arunachal Pradesh), India

Research Experience

M. Sc Dissertation

Title of the project: Influence of heavy metal on morpho-physiological characteristics of *Bixa orellana* Linn.

PhD Thesis

Title: Study on heavy metals contamination and their Phyto-remediation in soils around a Paper Mill and Municipal Landfill in Assam.

Areas of Interest

Soil pollution, Heavy metals, Phytoremediation, Climate Change Vulnerability and Adaptation analysis, Waste management, Soil Chemistry

Work Experience

- Working as an Assistant Professor in the Department of Environmental Science in the Assam Royal Global University from March 2021 to till date.
- Worked as an Assistant Professor in Arunachal University of Studies from August 2019 to March 2021.
- Worked as a Resource person on 400hours Certificate course under Green Skill Development Programme (GSPD) for value addition & marketing of NTFPs- Bamboo Crafts supported by MoEF & CC Govt. Of India held from 14th Oct. 2019 to 18th Dec 2019 at Arunachal University of Studies Namsai, Arunachal Pradesh.
- Worked as a Junior Project Officer in an Environmental Consultancy, Kolkata from June 2018 to August, 2018.

- Worked as a Teaching Assistant in the Two Week ISTE Short term training programme (STTP) on Environmental Studies (from 02.06.2015 to 12.06.2015) under the National Mission on Education through ICT (MHRD, Govt. Of India).

Publications

- [Mitra, S., Ghose, A., Gujre, N., Senthilkumar, S., Borah, P., Paul, A., Rangan, L.](#) **A review on environmental and socioeconomic perspectives of three promising biofuel plants *Jatropha curcas*, *Pongamia pinnata* and *Mesua ferrea*** (2021). Biomass and Bioenergy. Doi: <https://doi.org/10.1016/j.biombioe.2021.106173> (Elsevier)
- **Borah, P., Gujre, N., Rene, E. R., Rangan, L., Paul, R. K., Karak, T., and Mitra, S** **Assessment of mobility and environmental risks associated with copper, manganese and zinc in soils of a dumping site around a Ramsar site** (2020). Chemosphere. Doi: <https://doi.org/10.1016/j.chemosphere.2020.126852> (Elsevier)
- **Borah, P., Singh, P., Rangan, L., Karak, T., and Mitra, S.** **Mobility, bioavailability and ecological risk assessment of cadmium and chromium in soils contaminated by paper mill wastes** (2018). Groundwater for Sustainable Development. Doi: <https://doi.org/10.1016/j.gsd.2018.01.002> (Elsevier)
- **Borah, P., Paul, A., Bora, P., Bhattacharyya, P., Karak, T., Mitra, S.** (2017). **Assessment of heavy metal pollution in soils around a paper mill using metal fractionation and multivariate analysis.** International Journal of Environmental Science & Technology. DOI 10.1007/s13762-017-1350-y (Springer)
- Mitra, S., Singh, P., Manzoor, S., Bhattacharyya, P., Bera, T., Kumar Patra, A., Rangan, L. and **Borah, P.** (2016). **Can rice and wheat biochar amendment protect the carbon loss from tropical soils—An experimental study.** Environmental Progress Sustainable Energy, 35: 183–188. Doi:10.1002/ep.12193 (Wiley)
- Singh, P., Mitra, S., Majumdar, D., Bhattacharyya, P., Prakash, A., **Borah, P., Paul, A., Rangan, L.** (2016). **Nutrient and enzyme mobilization in earthworm casts: A comparative study with addition of selective amendments in undisturbed and agricultural soils of a mountain ecosystem.** International Biodeterioration & Biodegradation, 1-11. Doi.org/10.1016/j.ibiod.2016.09.008 (Elsevier)

Book Chapter:

R. Kar, P. Borah, C. Bhuyan (2022). **A review of palaeogenesis of ore deposits in and around Udaipur, Rajasthan with an insight into the geo-environmental concerns.** *Multidisciplinary Approach in Research (Vol-1 & 2) & Environment and Education.* Redshine Publication.

Conference Proceedings:

- P. Borah, S. Mitra (2020). Phytoremediation of heavy metal contaminated soils with

biofuel plants: an alternative approach. *Natural Resources Management and Sustainable Agriculture with Reference to North-East India*. 28, 48.

Conferences and workshops

- Attended and presented a paper as a co-author entitled “Carbon sequestration and carbon dynamics in agriculture and forest ecosystem: with reference to climate change” from 2nd-3rd June, 2022 in the international conference on India’s Act East Policy and Indo-Pacific Developments: Problems and prospects for North East India organized by the Royal Centre for Act East Policy Studies, Assam Royal Global University.
- Attended as a resource person in the “Training on Climate Change Adaptation” from 27- 28th Feb, 2020, organized by the State Climate Change Cell, Department of Environment and Forests, Govt. Of Arunachal Pradesh under the “National Mission for sustaining the Himalayan Ecosystem (NMSHE)”.
- Attended and presented a paper entitled “Phytoremediation of heavy metal contaminated soils with biofuel plants: an alternative approach” in the National Conference on “Natural Resources Management & Sustainable Agriculture with reference to North- East India” during 28-29 Jan, 2020.
- Attended the workshop on — Ecosystem Approaches to Water and Food Security for Rural Wellbeing by Ashoka Trust For Research in Ecology and the Environment (ATREE) in collaboration with CRT-IIT Guwahati, 10th -14th Sep. 2018.
- Attended the two day —Sensitization workshop on Technological Empowerment of Women, 3rd to 4th Nov. 2017.
- Attended One day symposium on —Recent Advancements in Environmental Research (RAER 2017), IIT Guwahati, 5th June, 2017.
- Attended and presented poster at the National seminar on —Climate Change and Society, Tezpur University, 24th to 25th February, 2017.
- Attended the International Conference on —Strategies for Environmental Protection and Management, JNU, New Delhi, 11th to 13th December 2016.
- Attended the Regional Training Programme cum Workshop on ShodhGanga and AntiPlagiarism Software, Tezpur University, 2014.
- Attended the one day Workshop on —Laboratory Safety, Tezpur University, 2014.
- Attended the National Seminar on —Plant Resource Management and Conservation Strategies in N.E. Region, Department of Botany, Cotton College, 2011.
- Attended one day workshop on —North East and the Response to Climate Change Policies for Watershed Management, Energy Security, and Biodiversity, 2010 at North Eastern Development Finance Corporation Ltd. (NEDFi).

Webinars and online Training program attended:

- National Training programme on “Early Recovery from M6.4 Assam Earthquake April 28, 2021” on 4th May, 2021 organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in Collaboration with Assam Engineering College Guwahati and North Eastern Hill University, Shillong.
- National Training programme “Forest Fires Risk Mitigation and Management in Mizoram” on 12th May, 2021 organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in Collaboration with Centre for Disaster Management Mizoram University.
- International Webinar on “Implementation of GIS Technology in Modern Development” organized by TEAM 2020 HELPERS (Non- Profit Organisation- West Bengal, India) in association with UNIQUE MAPPERS TEAM, Nigeria with the insights of “Geospatial Thinking: Transforming World” & “The Power of OpenStreetMap in Building a carrier in GIS” on 18th June, 2021.
- Three day Training Program on “Landslide Risk Mitigation & Management in North-East India” from 28th to 30th June, 2021, jointly organized by Department of Geology, North-Eastern Hill University (NEHU), Shillong, Meghalaya and National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India.
- International Webinar on “Effects of Climate Change on Biodiversity” on 29th July, 2021, organized by the Department of Zoology, Madras Christian College, Chennai.
- National Webinar on “Hydrocarbon Exploration and Development Current Perspective” organized by the Department of Applied Geology, Dibrugarh University, Dibrugarh on 31st July, 2021.
- Two days online training course for teaching faculty on “Conservation Issues in India” from 19th to 20th July, 2021 organized by Central Academy for State Forest Service (CASFOS), MoEFCC, Govt. of India.

Achievements:

2018: Awarded NTA UGC NET-LS (National Eligibility Test for Lectureship) in Environmental Science

2011: 11th Prof. A.C. DUTTA MEMORIAL AWARD for securing highest marks in Botany Major of Cotton College, Guwahati, Assam, India.

Computer Skillset

Proficient in E-Office and SPSS

Personal Information

Date of Birth : 20th March 1990
Father's Name : Phani Borah
Permanent Address : No.2 Naharani, Kakila Chariali, Gohpur,
District: Biswanath, Assam, Pin-784168
Correspondence Address : District Hospital Changlang, Changlang, Arunachal
Pradesh, Pin-792120