

Curriculum Vitae

Personal Details



Name: DR. JURISANDHYA BARIK BORDOLOI
Designation: Associate Professor
Date of Birth: 30-01-1976
Marital Status: Married

Contact Details

Address for Communication: Department of Soil Science
School of Agricultural Sciences, Nagaland University,
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Academic Qualifications

- Ph.D. (Agricultural Chemistry & Soil Science) from School of Agricultural Sciences (SAS), Nagaland University (Medziphema Campus) in the year 2022.
- Master's Degree M.Sc (Agri) with specialization in Soil Science (Soil Microbiology) from Assam Agricultural University, Jorhat, Assam in the year 2000.
- Bachelor's Degree B.Sc (Hons.) Ag. from Assam Agricultural University, Jorhat, Assam in the year 1998.
- Qualified National Eligibility Test (NET) conducted by Agricultural Scientists Recruitment Board (ICAR), New Delhi in the professional subject Soil Science- Soil Chemistry/ Fertility/ Microbiology in the year 2001.

Professional Qualification

1. Full time Teaching

- Associate Professor, Department of Soil Science in School of Agricultural Sciences (SAS), Nagaland University, from 11.10.23 till date.
- Assistant Professor, Department of Soil Science in School of Agricultural Sciences (SAS), Nagaland University, from 22.10.13 to 11.10.23.

2. Full time Research/ Extension

- Subject Matter Specialist, T-6 (Soil Science/ SWCE) from 24.04.2010 to 10.10.2013 at Krishi Vigyan Kendra, Hailakandi under ICAR Research Complex for NEH Region, Barapani (Meghalaya).

Publications

A. Research Papers

Citations: 505 (as on 11.03.24); h-index: 7; i10 index: 6

1. Gogoi, B.B., Yeasin, M., Paul, R. K., Borgohain, A., Deka, D., Malakar, H., Saikia, J., Rahman, F.H., Panja, S., Sarkar, A., Maiti, C. S., Bordoloi, Jurisandhya and Karak, T. 2023. The level of selected metals in made tea and tea infusion from the roadside tea plants and health risk assessment. *Biological Trace Element Research* 1-21. <https://doi.org/10.1007/s12011-023-03865-z> (Scopus/ WoS indexed); **Impact Factor 3.9**
2. Pidenro, A., Dutta, M., Sewak Ram, Bordoloi, Jurisandhya., Jamir, A. and Ngullie, H. 2023. Evaluation of soil erodibility status under different land uses in Sechu-Zubza subdivision of Kohima, Nagaland. *Biological Forum- An International Journal* **15**(3): 571-575. (UGC Care listed)
3. Bordoloi, Jurisandhya and Sharma, Y.K. 2022. Seasonal variation of physico-chemical properties and fertility of soils under different land uses in Nagaland. *International Journal of Bio-resource and Stress Management*. **13**(8):788-797. (Peer reviewed)
4. Bordoloi, Jurisandhya and Sharma, Y. K. 2022. Spatial variability of carbon fractions under different land uses in Nagaland. *Environment and Ecology*. **40**(3A): 1295-1304. (UGC Care listed)

5. Bordoloi, Jurisandhya and Sharma, Y. K. 2022. Comparative studies on labile carbon fractions under different land use systems in Nagaland. *The Pharma Innovation*. 11(8): 422-425. (UGC Care listed)
6. Konyak, Leiwang, Sharma, Y.K., Sharma S.K. and Bordoloi, Jurisandhya. 2020. Fertility status, potassium fractions and acidity nature of the soils of Mon District, Nagaland in relation to land uses. *The Journal of Indian Society of Soil Science*. 68(2): 201-209. (UGC Care listed)
7. Dkhar, Sanbharisha., Bordoloi, Jurisandhya., Bordoloi, L.J. and Sharma, Y.K. 2019. Soil quality parameters and yield of green gram as affected by the combined application of manures and biofertilizers. *International Journal of Current Microbiology and Applied Sciences*. 8(4): 23-32. (Peer reviewed)
8. Jatoliya, Rajesh Kumar., Bordoloi, Jurisandhya., Bordoloi, L.J. and Sharma, Y.K. 2019. Nitrogen mineralization from different manures under maize cultivation in acidic soils of Nagaland. *Annals of Plant and Soil Research*. 21(3): 203-209. (UGC Care listed)
9. Ngosai, K., Sharma, Y.K., Sharma, S.K. and Bordoloi, Jurisandhya. 2018. Maize (*Zea mays* L) productivity and soil properties as affected by fertility levels under Nagaland condition. *Annals of Plant and Soil Research*. 20(2):349-353. (UGC Care listed)
10. Gadi, Yabi., Sharma, Y.K., Sharma, S.K. and Bordoloi, Jurisandhya. 2018. Influence of phosphorus and potassium on performance of green gram (*Vigna radiata* L.) in inceptisols of Nagaland. *Annals of Plant and Soil Research*. 20 (2): 120-124. (UGC Care listed)
11. Ezung, Lanrhonthung., Singh, A. K., Bordoloi, J. B. and Sharma, S. K. 2016. Effect of nutrient management practices on growth, yield and quality of greengram (*Vigna radiata* L. Wilczek) grown in acid soils of Nagaland. *Journal of Soils and Crops*. 26 (1): 40-44. (Peer reviewed)
12. Das, Anup., Lal, R., Patel, D.P., Idpuganti, R.G., Layek, Jayanta., Ngachan, S.V., Ghosh, P.K., Bordoloi, Jurisandhya., Manoj Kumar. 2014. Effects of tillage and biomass on soil quality and productivity of lowland rice cultivation by small scale farmers in North Eastern India. *Soil & Tillage Research*. 143: 50-58. (Scopus/ WoS indexed); **Impact Factor 7.366**
13. Patel, D.P., Das, Anup., Munda, G.C., Ghosh, P.K., Bordoloi, Jurisandhya., Manoj Kumar. 2010. Evaluation of yield and physiological attributes of high-yielding rice varieties under aerobic and flood irrigated management practices in mid-hills ecosystem.

Agricultural Water Management. 97(9): 1269-1276. (Scopus/ WoS indexed);
Impact Factor 6.611

14. Das, Anup., Patel, D.P., Munda, G.C., Ghosh, P.K., Saha, R., Bordoloi Jurisandhya., Manoj Kumar. 2010. Productivity and Soil Nutrient Balance Sheet as Influenced by In-Situ Biomass Recycling in Rice-vegetable Cropping Sequences. *Environment & Ecology*. 28 (1): 160-163. (UGC Care listed)
15. Ghosh, P.K., Saha, R., Gupta, J.J., Ramesh, T., Das, Anup., Lama, T.D., Munda, G.C., Bordoloi Jurisandhya., Verma, M.R., Ngachan, S.V. 2009. Long-term effect of pastures on soil quality in acid soil of North-East India. *Australian Journal of Soil Research*. 47: 372-379. (Scopus/ WoS indexed); **Impact Factor 1.878**
16. Das, Anup., Patel, D.P., Munda, G.C., Hazarika, U.K., Bordoloi Jurisandhya. 2008. Nutrient recycling potential in rice-vegetable cropping sequences under in situ residue management at mid-altitude subtropical Meghalaya. *Nutrient Cycling in Agroecosystem*. 82: 251-258. (Scopus/ WoS indexed); **Impact Factor 3.866**
17. Barik, J., Talukdar, N.C. 2004. Seasonal variation in response of pea (*Pisum sativum*) and Greengram (*Vigna radiata* L. Wilczek) to *rhizobium* inoculation. *Journal of Applied Biosciences and Biotechnology*. 1 (1):19-23.

B. Other Publications

i. Books Authored

Practical Manual on ACS-101 (Fundamentals of Soil Science) Jurisandhya Barik Bordoloi & Kevineituo Bier in the year 2021. ISBN: Not available

ii. Editor of book

- a. Nutrient Management in Organic Farming (eds.) U.K. Hazarika, G.C. Munda, K.M. Bujarbaruah, Anup Das, D.P. Patel, Kamta Prasad, Rajesh Kumar, A.S. Panwar, J.M.S. Tomar, Jurisandhya Bordoloi, Meghna Sharma & Girin Gogoi in the year 2006. ISBN: Not available
- b. Technology Intervention at Hailakandi District under National Initiative on Climate Resilient Agriculture (NICRA) (eds.) Sk. Md. Azizur Rahman, Jurisandhya Barik Bordoloi, Soibam Basanta Singh, Shamsher Singh, Bijoy Chhetri, Abhishek Kumar, Saurabh Sarma, Bankit Kupar Mukhim, Kabita Choudhury & Thejangulie Angami in the year 2013. ISBN: Not available

iii. Chapter in edited book

- a. Role of biofertilizers as a component of organic eco-friendly farming. **In:** Sustainable Jhum farming for Conservation of Natural Resources and Food Security (eds.) Manoj Kumar, Rajesha G., K.L. Meena, D.J. Rajkhowa, Sanjay Kumar Ray, P. Chowdhury & Anamika Sharma in the year 2016. ISBN: Not available
- b. Use of Azolla for Terrace Rice Cultivation. **In:** Souvenir published in connection with Regional Agriculture Fair, 2022 during 12-14 March, 2022 held at Assam Agricultural University, Jorhat.(eds.) Dr. P.K. Pathak, Dr. Bipul Deka, Dr. Nilay Borah in the year 2022. ISBN: Not available
- c. Soil and water management strategies for combating weather related contingencies. **In:** Technological interventions suitable for agriculture scenario of Hailakandi District, Assam. (eds.) Sk. Md. Azizur Rahman, S.B. Basanta Singh, A.K. Tripathi, S.V. Ngachan in the year 2013. ISBN: Not available
- d. Azolla Biofertilizer. **In:** Sustainable Crop Production- for food sufficiency in NE India. (eds.) A. S. Panwar, S.V. Ngachan, G.C. Munda & Anup Das in the year 2008. ISBN: Not available
- e. Site Specific Nutrient Management- Concept and Future Challenges in Indian Agriculture. **In:** Hill Agri- annual school magazine (SAS) in the year 2022. ISBN: Not available
- f. Soil testing for optimization of agricultural production in the climate change scenario. **In:** Resource Conservation Technologies in the Context of Climate Change. (eds.) Dibyendu Chatterjee, Christy B.K. Sangma, Z. James Kikon, Sanjay Kumar Ray, Pulakabha Chowdhury, Lahar Jyoti Bordoloi & Bidyut C. Deka in the year 2015. ISBN: Not available
- g. Azolla Biofertilizer- A boon for enhancing productivity of paddy under low input use. In: Hill Agri- annual school magazine in the year 2017. ISBN: Not available
- h. Azolla- the photosynthetic biofertilizer for sustainable rice cultivation. **In:** Advances in Organic Farming Technology in India. (eds.) G.C. Munda, P.K. Ghosh, Anup Das, S.V. Ngachan & K.M. Bujarbaruah in the year 2007. ISBN: Not available

Creation of ICT mediated Teaching Learning Pedagogy, content and development of e-courses

**A. Created class videos while taking online classes during Covid 19 in google classroom.
Link for few class videos are:**

1.https://drive.google.com/file/d/1Lo3djy2J-nYFH1mavhoU9RJDCYpHy6Kv/view?usp=drive_link

2.https://drive.google.com/file/d/17-yT10Ys9ufDNsPSG1gbPywXWDIpd1jS/view?usp=drive_link

3.https://drive.google.com/file/d/1Ag9d5w17x_eizqp3AUXnONxO_ZYaSC0r/view?usp=drive_link

4.https://drive.google.com/file/d/1OaGU3RKpFvoMiq3iNh57EM-7YjnjqnHt/view?usp=drive_link

B. Lecture

1. Uploaded lecture on soil microorganisms- their beneficial and harmful role in **Agri-DIKSHA-Agri Web Education Channel**

agridiksha.krishimegh.in/VideoLibrary.aspx

Research Guidance

A. M.Sc (in Soil Science) Degree awarded: 06

B. Ph.D (in Soil Science) Ongoing : 01

Research Projects and Consultancy

1. **Innovative project entitled** “Assessment of soil health indicators in a rice based cropping system in Nagaland”

Status: Completed

Duration: 01 year (2016-17)

Total Grant/Funding received Rs.1 Lakh

Name of Sponsoring/ Funding Agency: Nagaland University, Headquarter: Lumami

2. **Start-Up project entitled** “Production and utilization of different composts as an approach for enhancing growth, productivity and soil fertility under maize- mustard cropping system”

Status: Ongoing

Duration: 02 years (2023-25)

Total Grant/Funding received Rs.3 Lakh

Name of Sponsoring/ Funding Agency: Nagaland University, Headquarter: Lumami

Awards/Fellowship

- 1. Name of Award/ Honour: 2nd Best research paper (Oral)** presentation in International Conference on Biodiversity, Food Security, Sustainability & Climate Change (ICBFSCC-2023)
Date: 28-04-2023
Name of Awarding Body: Assam Agricultural University, Jorhat (Assam) and Prof. H.S. Srivastava Foundation for Science, Lucknow (Uttar Pradesh), India
- 2. Name of Award/ Honour: 2nd Best research paper (Oral)** presentation in National Seminar on Sustainable Emerging Approach in Agri-Business Development
Date: 02-11-2023
Name of organizing body: Department of Agricultural Economics, SAS, Nagaland University (Medziphema Campus), Nagaland
- 3. Name of Award/ Honour: “Young Scientist Award”** on the occasion of National Seminar on Sustainable Emerging Approach in Agri-Business Development held during 1st - 3rd November, 2023
Name of Awarding Body: Society for Recent Development in Agriculture
- 4. Name of Award/ Honour: Outstanding Technical Staff** (for the year 2012), Regional Centre (Mizoram)
Date: 09-01-2013
Name of Awarding Body: ICAR Research Complex for NEH Region, Umiam (Meghalaya)

Invited Lectures/ Resource Person/ Paper presentation in Seminars/ Conferences/ full paper in Conference Proceedings

A. Resource Person

- Resource person in Career Counselling Programme for NET/ARS aspirants of SAS, Nagaland University. Organized by School of Agricultural Sciences, Nagaland University (Medziphema Campus)
Date of lecture: 16-05-2015
Duration (in mins.): 100
- Resource person in Career Counselling Programme for NET/ARS aspirants of SAS, Nagaland University. Organized by School of Agricultural Sciences, Nagaland University (Medziphema Campus)
Date of lecture: 07-05-2016
Duration (in mins.): 100

3. Delivered lecture as resource person on “Biofertilizers and its Uses Category” organized by Central Agricultural University , Imphal at Biofertilizer Quality Control Laboratory, District Soil Conservation Office, Dimapur
Date: 25-03-2022
Duration (in mins.):100
4. Acted as resource person in Scientists- Farmer’s interaction during Farmers’ Fair at SAS, organized by Farmer's Cell, at SAS, Nagaland University (Medziphema Campus) Nagaland
Date: 13-04-2016
Duration (in mins.):100
5. Lecture delivered on “methods of composting and application of compost in vegetable production” at training programme for Farmers at Hekeshe village, Medziphema
Date : 24-03-2017
Duration (in mins.): 100

B. Paper Presented

1. Presented research paper (Oral) entitled “Horticulture based land management impacts on carbon dynamics and soil quality- keys for climate proofing of agriculture” in International Conference on Biodiversity, Food Security, Sustainability & Climate Change (ICBFSCC-2023) organized jointly by Assam Agricultural University, Jorhat (Assam) and Prof. H.S. Srivastava Foundation for Science, Lucknow (Uttar Pradesh), India
Date of Presentation: 27-04-2023
Duration (in mins.):8
2. Presented research paper (Oral) entitled “Use of organic manures and biofertilizers: New vistas in enhancing green gram (*Vigna radiata* L. Wilczek) productivity and soil quality in North East India” in International Conference on Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA-2018) organized jointly by Assam Agricultural University, Jorhat (Assam) and Prof. H.S. Srivastava Foundation for Science, Lucknow (Uttar Pradesh), India
Date of Presentation: 15-12-2018
Duration (in mins.):10
3. Presented research paper (Oral) entitled “Temporal variation of carbon fractions and fertility of soils vis-a-vis climate resilient agricultural land use system” in National Seminar on Sustainable Emerging Approach in Agri-Business Development, organized by Department of Agricultural Economics, SAS at School of Agricultural Sciences, Nagaland University (Medziphema Campus), Nagaland

Date: 02-11-2023

Duration (in mins.): 8

Membership/Fellowship of Academies/Institutions/Professional Societies

1. Life Member of “The Indian Society of Soil Science”
2. Life Member of “International Journal of Bio-resource and Stress Management”

FDP/ Training/ Workshops/ Short courses attended

1. Attended Professional Development Programme (PDP) on Implementation of NEP-2020 for University and College teachers from 09-17 September’ 22 organized by IGNOU, Staff training and Research Institute of Distance Education, New Delhi-110068.
2. Attended webinar on “Improving Research Writing using Grammarly” on 30th March, 2022 organized by Central Library, Nagaland University in Collaboration with Bridge People.
3. Attended Online National Workshop on “Data Analysis and Statistical Computing Through SPSS during 22nd -23rd May, 2021 Organized by Council of Research and Sustainable Development, India.
4. Attended 21 days training programme (short course) on “Biophysical and Socioeconomic Interactions in Agroforestry” organized under ICAR-NAHEP-CAAST during 16th February- 8th March, 2021 jointly by Department of Forestry & Natural Resources and Department of Soil Science, PAU, Ludhiana. (online).
5. Attended online Training cum Workshop on “Academic Administration” (module 2: Service rules) organized by IQAC, Nagaland University during the period 24th September - 22nd October, 2020.
6. Attended International online short course on “Precision Agriculture: A Technology for Income Augmentation and Entrepreneurship Development” organised by College of Fisheries, Central Agricultural University, Imphal (India) during 07-18th July, 2020.
7. Attended Webinar on “Organic Farming: Policies and Advocacy” organized by Nagaland Organic Konnect (NOK) on 27th June, 2020.
8. Attended Online Faculty Awareness Programme on “Online Teaching Pedagogy in Higher Education”, 11-14th June 2020, organized by Department of Agriculture and Environmental Sciences, NIFTEM, Kundli, Sonapat (Haryana).

9. Participated in sensitization workshop on DST-Women scientist scheme organized jointly by DST, New Delhi and Nagaland University at SAS, NU during 4-5 March, 2019.

10. Participated in hands-on-training programme for faculty members on 'Biotechnology and its Application in Agriculture' during 3rd to 9th June, 2016 at SAS, NU.

11. Attended Winter School on 'Role of Agri Business and Market Intelligence for Sustainable Agriculture Development' at SAS, NU from 6th to 26th September, 2016.

12. Attended UGC sponsored Orientation programme (OP-4) from 26th February to 25th March, 2015 at Academic Staff College, Guwahati University, Assam.

(Jurisandhya Barik Bordoloi)
