

Dr. SIMI TALUKDAR

Teaching and Research

Vill: Nalbari Satra, P/O: Chowk Bazar, Dist: Nalbari, Assam-781334, India

Email Id: simfly2015@gmail.com; Phone (M): +91-8099022188

LinkedIn ID: simfly@rediffmail.com

Research Gate ID: simfly@rediffmail.com

PROFESSIONAL PROFILE

Assistant Professor/ Researcher/ Proficient AI Data analyzer

- **First rank holder** (M.Sc.) in Ecology & Environmental Science, **DST-INSPIRE** Fellow, Govt. of India, **DST-SYST** Fellow, Govt. of India, qualified **SLET** (NE SLET Commission) for eligibility of Assistant Professor.
- Served as **organized, energetic** and **highly informative Assistant professor** with 5 years of experience, spreading knowledge of ecology and environmental science to both PG and UG students of University. Got opportunity to interact with international students from **Chiang Mai University, and Alborg University**.
- Highly motivated independent **researcher** having 10+ years of experience; **writing/designing project grants** of national and international; **publishing records** in national/international peer-reviewed journals and presenting papers and posters with **effective verbal and written communication** skills to deliver excellent presentations.
- Internationally accredited advanced **Lean Six Sigma Yellow Belt** Certificate holder.
- **Reviewer of Springer and Elsevier** scientific papers.

AREA OF EXPERTISE

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| • AI trained Research and Academic writer | • Minitab |
| • AI based Data analysis | • Project designing |
| • R programming | • Microsoft office |
| • SPSS | • Teaching |

AREA OF INTEREST

- Climate change
- Environmental awareness
- Ecology and Ecosystem Dynamics
- Natural Resource management
- Human dimensions of biodiversity conservation
- Traditional herbal medicine
- Sustainability
- GIS and Remote sensing
- Project designing
- Research and Analysis

PROFESSIONAL EXPERIENCE

Freelance

2023/02- Till date

Research and Academic Writer

- Designing research methodologies, conceptual frameworks, and systematic review strategies for publication in peer-reviewed journals.
- Providing academic mentorship and research guidance to postgraduate and doctoral scholars.
- Assisting in research proposal development, grant writing, and funding documentation.
- Performing critical literature synthesis, statistical interpretation, and ensuring compliance with international journal standards (Scopus/SCI-indexed).
- Ensuring adherence to journal-specific formatting guidelines (Springer, Elsevier, Scopus-indexed journals, etc.)
- Supporting thesis structuring, referencing (APA, MLA, Chicago, Vancouver), and plagiarism compliance.

Nucleus Academy

2021/04-2023/01

Assistant Professor

- Served as **Assistant professor**, teaching over **500+ students** and helping the institute to qualify 100% students every semester.
 - Proctored exams, revised course material and provided remediation for learning improvement goals.
 - Wrote and published **peer reviewed papers** concerning findings and highlighted possible applications.

Arunachal University of Studies

2017/01-2020/02

Assistant Professor

- Served as Assistant professor, teaching over **2500+ students of both UG and PG** level of different streams, qualifying 100% students every semester. Also, taught **research conception, designing and execution** to address the defined problem to PG students.
- Got opportunity to teach and interact with international students from **Chiang Mai University, Alborg University**.
- **Conducted independent research** to serve as basis for academic writing for publication.
- Published papers in **national and international journals** of world class publisher, viz. **Elsevier, Cambridge University Press, CEEED** and presented in national and international **conferences**.

EDUCATION

Doctor of Philosophy (Ph.D.) (2010-2016)

Title of thesis: Community attitude, conservation and resource sharing around protected areas of Bodoland Territorial Council, Assam.

Institution: Department of Ecology and Environmental Science, Assam University, Silchar, India

Master of Science (M. Sc.) in Ecology and Environmental Science (2007-2009)

Institution: Department of Ecology and Environmental Science, Assam University, Silchar, India

Specialization: Forest Ecology

Title of M. Sc. Dissertation: Butterfly diversity in two different habitats in the vicinity of Assam University campus, Silchar, Assam.

ACCOMPLISHMENT

- Received gold medal for securing **first class first position** (M.Sc.) in Ecology and Environmental science from the department of Ecology and Environmental science, Assam University.
- Received merit certificate for securing **highest mark in M.Sc.** from E.P. Odum School of Environmental Sciences, Assam University.
- Received **DST-INSPIRE Fellowship** (DST/INSPIRE Fellowship/2011/1093) under the Department of Science & Technology, Government of India.
- Qualified **State Level Eligibility Test (SLET)** of Northeast (N.E.) India for Environmental science.
- Received **DST-SYST Fellow** (SP/YO/2019/1227/G), Department of Science & Technology Govt. of India.

BOOK CHAPTER PUBLICATION

1. **Talukdar, S.** (2024) 'Ethnomedicinal practices of indigenous knowledge among the *Idu-Mishmi* tribe of Dibang Valley, Arunachal Pradesh, Northeast India' in "Ethnobotany and Biodiversity of Medicinal plants (Volume 2), 2024.
2. Das, M., **Talukdar, S.**, Semy, K., Sangma, M.N., Gupta, G., Lee, C. Y. (2026) 'Physicochemical Properties of Wastewaters Relevant to Microalgae Cultivation' in "Microalgae-Based Nutrient Recovery from Wastewater: A Sustainable and Eco-Friendly Approach" (Accepted).
3. **Talukdar, S.**, Das, M., Semy, K., Sangma, M.N., Gupta, G., Lee, C. Y. (2026). "Circular Bioeconomy: Converting Waste to Wealth for Sustainable Development" in "Sustainable Waste Management for Climate action and the SGDs" (Accepted).

RESEARCH ARTICLE PUBLICATION

1. **Talukdar, S.**, Jyethi, D. S., Sarma, B., Talukdar, H. (2026). Cultural Ecology and Conservation of Traditional Beverage Practices among selected communities of Assam, Northeast India. Discover Foods, Springer (Accepted on 11th June, 2026).
2. Sarma, B., **Talukdar, S.**, Roy, J. D., Pegu, R.K. (2026). Comparative efficacy of biofungicides and synthetic fungicides as seed treatments for improving seed health and early seedling establishment of French bean (*Phaseolus vulgaris* L). *Journal of Crop Health*, Springer, 45, 145-153.
3. **Talukdar, S.** (2025) Traditional herbal practices associated with malaria and associated symptoms: Mishmi tribe cohort study from Arunachal Pradesh, Northeast India. *Journal of Herbal Medicine*, Elsevier, 50, 101002.
4. **Talukdar, S.** (2022) Utilization pattern of forest resources: Evidence from the fringe villages of Manas National Park, Northeast India. *Ecology, Environment and Conservation*, 28: S39-S44.
5. **Talukdar, S.** and Gupta, A. (2020). Ethnomedicinal knowledge of the Garo community of two villages in Western Assam, India. *Journal of Herbal Medicine*, Elsevier, 20, 100229.

6. Hussain, M. M., **Talukdar, S.**, Dey, T., Paul, S. and Singha, H. (2018). Whiskered Tern: Sighting of Whiskered Tern *Chlidonias hybrid* (Pallas, 1811) in Son Beel, Assam. Bird-o-soar #11. In: *Zoo's Print* 33(2): 30-34.
7. Adhikari, P. P., **Talukdar, S.**, and Borah, A. (2018). Ethnomedicobotanical study of indigenous knowledge on medicinal plants used for the treatment of reproductive problems in Nalbari district, Assam, India. *Journal of Ethnopharmacology*, Elsevier, 210:386-407.
8. **Talukdar, S.** and Gupta, A. (2017). Attitudes towards forest and wildlife among three communities near Chakrashila Wildlife Sanctuary, Assam, India, with notes on their conservation-oriented traditions. *Oryx*, Cambridge University Press, 50: 244- 249.
9. Sinha, A., **Talukdar, S.**, Das, G.C., Sarma, P.K., & Singha, H. (2015). Diversity of winter avifauna in Dheer beel, Assam, India. *Indian Birds*, 10 (3-4): 99–103.
10. **Talukdar, S.** and Soud, R. (2014). Social bondage of forest dwellers: Learning the solidarity from forest dependent communities. *International journal of Ethnobiology*, 1(1): 6-7.
11. **Talukdar, S.** and Gupta, A., (2014). Medicinal plants used by the Bodo community of Chakrashila Wildlife Sanctuary, Assam, India. *Indian Journal of Applied Research*, 4(2): 43-46.
12. Soud, R. and **Talukdar, S.**, (2013). Contemporary crisis of Rhinoceros in Assam: A critical review. *Asian Journal of Conservation Biology*, 2(1): 82-83.
13. **Talukdar, S.** and De, A., (2013). Butterfly diversity in two different habitats in the vicinity of Assam University campus, Silchar, Assam. *Nebio*, 4(2): 11-15.
14. Soud, R., **Talukdar, S.** and Dey, N.K., (2013). Conservation challenges of Manas Tiger reserve: political unrest and community attitude. *The Clarion*, 2 (1): 59-63.
15. Soud, R. and **Talukdar, S.**, (2012). Political Ecology, Resource Rights and Coexistence Conflicts: A Contemporary Conservation Crisis in Assam. *Nebio*, 3(4): 11-14.
16. Soud, R., Mazumdar, K., Gupta, A. and **Talukdar, S.**, (2012). Defensive and burrowing behaviour of *Kaloula assamensis* Das et al., 2004 and *Kaloula pulchra* Gray, 1831 (Microhylidae). *Frog leg*, 18: 48-50.
17. Soud, R., Dey, N.K., Mazumdar, K.J., **Talukdar, S.** and Gogoi, L., (2010). Conservation priorities lesser cats of Chirang Reserve Forest, Assam. *The Tiger Paper*, 37(1): 20-22.
18. Soud, R., Mazumdar, K.J., Gupta, A., Mahony, S. and **Talukdar, S.**, (2007). Observation on the Courtship of *Fejervarya* Cf. *Limnocharis* (Gravenhorst, 1829) (Anura:Ranidae). *Cobra*, 1(3): 12- 15.
19. **Talukdar, S.**, Soud, R. and Deauti, K., (2007). Range extension of the Assam painted Frog *kaloula assamensis* (Anura: Microhylide) to western Assam. *Cobra*, 1(1): 18-20.
20. Soud, R. Sutradhar, S., Roy, B.C. and **Talukdar, S.**, (2006). Extend distribution of the spectacled Cobra *Naja naja* (Linnaeus, 1758) (Family: Elapidae) in western Assam, India. *Cobra*, 64: 13-14.
21. Soud, R., Sutradhar, S. and **Talukdar, S.**, (2006). A note on the occurrence of Copper- headed Trinket snake *Coelognathus radiatus* (Boie, 1827) in Western Assam. *Cobra*, 64: 11-12.

MANUSCRIPTS UNDER REVIEW

1. **Talukdar, S.** and Gupta, A. Farmers Vs Crop-Raiders: Impact of crop raiding by Rhesus macaque (*Macaca mulatta*) on the rice field of Chakrashila wildlife sanctuary, Assam, India. *Crop Protection*, Elsevier.
2. M. K. Sangma, M. Alom, M. Das and N. A. Bhat, **S. Talukdar**. Ethnomedicinal Plants Used for Dermatological Conditions in Northeast India: A Comprehensive Review. *Vegetos*, Springer.
3. K. Semy, R. K. Sunepmenla, M. R. Singh and **S. Talukdar**. Comparative Biochemical Profiling, Microbial Ecology, and Functional Potential of Traditional *Naga* Fermented Beverages from the Eastern Himalayas, India. *Food Bioscience*, Springer.
4. S. Paul, M. Das and **S. Talukdar**. Phytochemical Profiling, GC-MS Analysis, and Cytotoxic Activity of *Actinodaphne obovata* and *Cinnamomum bejolghota* Bark Extracts Against CAL-27 Human Oral Squamous Cell Carcinoma: An Ethnopharmacological Approach. *Vegetos*, Springer.
5. K. Pape, A. Sharma, F. Zakir, K. Sharma and **S. Talukdar**. Pharmacognostical and pharmacological investigation of *Clerodendrum colebrookianum* Walp. for diabetic management through exploration of molecular modeling. *J of Traditional and Complementary Medicine*, Elsevier.

CONFERENCE/SYMPOSIUM/TRAINING/WORKSHOP ATTENDED

1. Participated in the National Seminar on “Zoology for Human Welfare” organized by Zoological Society of Assam at Gauhati University on 2nd February 2006.
2. Participated in the Workshop on “Solid Waste Management” organized by Nature’s Fosters (NGO), on 7th April, 2006.
3. Participated in the Workshop on “Solid Waste Management” organized by Department Of Botany, Birjhora Mahavidyalaya on 30th June 2006 Supported by Ministry of Environment and Forest, Govt. of India.
4. Participated in the National Seminar on “Challenging frontiers in Applied Zoology” organized by Zoological Society of Assam and Department Of Zoology of Rangia College, Assam on 25th - 26th August 2006.
5. Presented a paper in the National seminar on “Biodiversity Conservation (Forest and Land Resource Management)” organized by Department of Ecology & Environmental Science, Assam University, Silchar on 4th-5th March, 2010.
6. Participated in the Workshop on “Techniques in Biodiversity Researches” organized by Department of Ecology & Environmental Science, Assam University, Silchar on 27th March, 2010.
7. Participated in short term course on “Research Methodology in Humanities & Social Sciences” held at the department of Humanities & Social Sciences, IIT Guwahati from 12th-18th March, 2011.
8. Participated in seminar cum workshop on “Remote Sensing and GIS Applications” organized by department of Ecology and Environmental Science, Assam University, Silchar under UGC (SAP-DRS) programme during February, 7th -13th, 2011.
9. Presented paper in YETI (Young Ecologists Talk and Interaction) held in IIT Guwahati, between 13th -16th December, 2011.

10. Presented a paper in the National seminar on “Recent Research Thrust in Biodiversity Conservation-North East India: A hotspot of Biodiversity” organized by department of Zoology, Birjhora Mahavidyalaya, Bongaigaon in collaboration with Bioinformatics Center, Gauhati University and held on 30th -31st January, 2012.
11. Presented a paper in the international seminar on “Global Ecosystems, Biodiversity and Environmental Sustainability in the 21st Century” (ICGEBEnS-2012) held between 15th- 17th February, 2012 and organized by department of Ecology and Environmental Science, Assam University, Silchar.
12. Poster presented in the international conference on “Harnessing the sub-Himalayan Plant Diversity for Human Welfare” held between 11th-13th March, 2015 and organized by Dibrugarh University.
13. Presented a paper in the National seminar on “Charting and Managing Biodiversity: Perceptions and Priorities” held on 8th-9th March, 2016 and organized by Department of Ecology and Environmental Science, Assam University, Silchar and UGC SAP (DRS II).
14. Presented a paper in the National seminar on “Environmental Awareness: Issues, Concerns and Challenges” held on 27th and 28th August, 2016 and organized by Nalbari College in collaboration with The Green Globe (NGO), Nalbari, Assam.
15. Presented a paper in UGC sponsored National seminar on “Food and Bioprocess Research for Industrial Application (FaBRIA-2017)” held on 15th and 16th August, 2017 and organized by Pub Kamrup College, Kamrup, Assam.
16. Participated as a rapporteur in the technical session and in organizing committee of two days Prof. G.N. Pandey memorial National workshop on “Professional Ethics of a Teacher” held on 17th -18th November, 2017 organized by Department of Education, Arunachal University of Studies, Namsai.
17. Participated as a rapporteur in the technical session and in organizing committee of INSPIRE SCIENCE CAMP-2018, held on 1st-5th February, 2018 sponsored by the Department of Science and Technology, Govt. of India and organized by Arunachal University of Studies, Namsai, Arunachal Pradesh.
18. Participated in ten days (13th- 24th March,2023) online course in 'Advances in Remote Sensing Techniques for Geological Applications', conducted by Indian Institute of Remote Sensing (IIRS), ISRO.
19. Participated in online weeklong faculty development program on implementation of “NEP 2020” in education institution (HEIs) 26th-2nd May, 2023, organized by Teaching Learning Centre Tezpur University.
20. Participated in online weeklong faculty development program on “Weeklong STTP on Enhancing administrative skills” organized by Teaching Learning Centre, Tezpur University during 24th-30th May 2023.
21. Presented a paper in National Seminar (12-13th March, 2026) on Community based indigenous medicinal plant knowledge for reproductive healthcare: an Indian knowledge system perspective from Nalbari, Assam, India organized by Institution’s Innovation Council, nalbari college in collaboration with IQAC

EXTRA SECTION

- Participated in National Group Song Competition organized by Bharat Vikas Parishad, 3rd Oct 2004.
- Participated many cooking competition, salad making competition, card and decorative item making programs.
- Participated in Mushroom Cultivation Programme conducted by Dept. Of Botany, Birjhora Mahavidyalaya, Bongaigaon, Assam from 10th-14th March, 2004.
- Hobbies are cooking, travelling, and exploring new cuisines of different zones.