

FACULTY PROFILE



- 1) Name of the Faculty Member: Dr. Argha Sarkar
- 2) Designation : Assistant Professor in Botany
- 3) Office address : Bangabasi College, Kolkata- 700009
- 4) Educational Qualification : M.Sc., Ph.D.
- 5) Teaching Experience in years: **15** years
- 6) Area of Expertise : Palaeobotany, Palynology, Palaeontology, Palaeoecology & Palaeoclimatology

7) List of Publications :

(a) List of Published Papers in National and International UGC approved or CARE-listed / Peer reviewed Research journals):

1. **Sarkar, A.,** Sen, P.K., 2014. Occurrence of Holocene mammalian remains and mollusc shells from Indian Sundarbans with environment of deposition. IOSR Journal of Pharmacy and Biological Sciences 9 (6): IV, 04-13, **e-ISSN: 2278-3008, p-ISSN: 2319-7676.**
Global Impact Factor: 0.887 UGC APPROVED JOURNAL
2. **Sarkar, A.,** Sarkar, A.K., Sen, P.K., 2014. Study of Genetic variation and phenetic relationships in some vulnerable taxa from Indian Sundarbans following RAPD marker analysis. Scientific Journal of Biological Sciences 3 (11), 108-116, **ISSN: 2322-1968, doi: 10.14196/sjbs.v3i11.1759.8**
Global Impact Factor: 0.825
3. Mishra, A.K., Bhattacharya, G., **Sarkar, A.,** Sen, P.K., 2016. Early Holocene peat formation and its implication for depositional environment around Taldi, Lower Bengal basin, West Bengal, India. Indian Journal of Geosciences 70(1), 69-78, **ISSN: 2229-3574.**
UGC APPROVED JOURNAL
4. Mitra, B., Mazumder, A., Das, P., Imam, I., **Sarkar, A.,** 2017. Floral diversity of the Sacred Groves in Gangajalghati, Bikna and Onda blocks of Bankura district, West Bengal, India. J. Environ. & Sociobiol. 14(1), 29-39, **e-ISSN: 2454-2601, p-ISSN: 0973-0834.**
Global Impact Factor: 0.342 UGC APPROVED JOURNAL
5. Mitra, B., Mazumder, A., **Sarkar, A.,** 2018. Sacred groves of Bishnupur, Joypur and Patrasayer blocks of Bankura district, West Bengal and their current status. Eco chronicle 13(1), 11-18, **ISSN: 0973-4155.**
UGC APPROVED JOURNAL
6. **Sarkar, A.,** Sen, P.K., 2019. Lower Bengal basin, India witnessing Sea Level change and change of Coastline during Holocene. Journal of Emerging Technologies and Innovative Research 6(2), 396-423, **ISSN: 2349-5162.**
Impact factor – 7.95 (calculated by Google scholar & Semantic scholar), UGC APPROVED JOURNAL

7. **Sarkar, A.**, 2020. Use of Non-Pollen Palynomorphs from Lower Bengal basin, India, for understanding the Holocene deltaic sediment deposition. *Journal of Botanical Society of Bengal* 74(2), 63-79, **ISSN: 0971-2976. UGC CARE LISTED JOURNAL**
8. **Sarkar, A.**, 2020. Bengal basin (emphasizing lower part) with special reference to Sundarbans, India: Quaternary Geology, Physiography, Climate, Phytogeography and Faunal distribution. *Journal of advanced scientific education and research (JASER)* vol. 1, 96-104, **ISSN: 2583-0155. PEER REVIEWED JOURNAL** published by **Ramakrishna Mission Vivekananda Centenary College, Rahara (NIRF ranking -8 in 2023).**

(b) Published Book (edited volume):

1. **Sarkar, A.**, Sa, C., 2018. Advancement of Biological Sciences towards new generation (Edited book), Levant Books, Kolkata, India, **ISBN: 978-81-936036-1-1.**
2. **Sarkar, A.**, 2023. Spore-pollen diversity recorded from Holocene sediments of Lower Bengal basin, India in deducing depositional environment. *Current Research Trends in West Bengal Colleges, India, Volume-I*, pages- 1-16, **ISBN: 978-93-88901-28-4**

8) Research Projects undertaken (if any): Project proposal submitted to MoEFCC, Govt. of India

9) Paper presented (Oral/Poster) in National/International Conference/Symposia & Workshops attended:

1. Oral Presentation- *Experiencing Sundarbans: From Bibhutibhusan till date*. UGC sponsored **National Seminar**, 2011 on “Emerging Trends in Plant Science” jointly organized by Post Graduate Dept. of Botany, Barasat Govt. College & Biological Sciences Division, Indian Statistical Institute, Kolkata.
2. Oral Presentation- *Plant Species Diversity in Relation with Inundation and Salinity of Mangrove Swamps in Lothian and Prentice Islands, Sundarbans, East Coast of India*. UGC sponsored **National Seminar**, 2011 on “Recent Advances in “Plant Sciences- Diversity, Conservation & its Applications” organized by Dept. of Botany, Rishi Bankim Chandra College, Naihati in collaboration with Dept. of Botany, West Bengal State University.
3. Oral Presentation- *Genetic Diversity Assessment of a few Threatened Mangrove Species of Sundarbans, India*. Fifth **International Botanical Conference**, 2011 on “Climate Change and Sustainable Development” organised by Bangladesh Botanical Society, Dept. of Botany, University of Dhaka, Bangladesh.
4. Oral Presentation- *Plant and Animal Remains Analysis in Identifying the Change of Environment during Holocene in Sundarbans, South Bengal Basin, India*. **National Symposium**, 2012 on “Plant Diversity and Resources: Evolution, Analyses, Stress and Challenges and Palaeophytodiversity: Its Aspects and Prospects” organized by Botanical Society of Bengal, Kolkata in collaboration with Dept. of Botany and CAS in Botany, University of Calcutta.
5. Oral Presentation- *Study of macroscopic plant remains from Holocene sediments of Lower Bengal basin, India for biostratigraphic zonations and environment of deposition*. **X International Palynological Congress and XIV International Organization of Palaeobotany Conference**, 2016 held in Salvador (Bahia), Brazil.

6. Oral Presentation- *Analysis of depositional environment and its consequent changes in chronological sequence with respect to animal remains assemblage zone recorded from Holocene sediments of Lower Bengal basin, India.* 5th India Biodiversity Meet 2018 (**International Conference**) held at Indian Statistical Institute, Kolkata.
7. Poster Presentation* - *Spore-Pollen diversity recorded from Holocene sediments of Lower Bengal basin, India in deducing depositional environment.* **National Seminar**, 2018 on 'Recent Trends and Scopes of Modern Biology organized by the Dept. of Microbiology in collaboration with the Dept. of Botany, Raidighi College.

*Received the **Best Poster Award** for the above-said poster presentation.

8. Oral Presentation- **Lead lecture on** *Trend of Holocene sea level change and change of coastline in connection with Environment of deposition in Lower Bengal basin, India.* **International Conference**, 2018 on Livelihood Promotion, Bio-diversity Conservation and Social security in Indian Sundarbans organized by Department of Plant Protection, Palli-Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan and Hiranmaypur Agro-horticultural Society for Technology and Rural Development, Basanti, South 24 Parganas in collaboration with Andrewspalli Centre for Integrated Development, Jogeshganj Project, North 24 Parganas and Techno India University, Kolkata, West Bengal.
9. Poster presentation – *Biostratigraphic Zones enriched with bioassemblage of Holocene Period in Understanding Environment of Deposition of Lower Bengal basin, India* - **Young Scientists' Conference- India International Science Festival**, 2019
10. Oral presentation – *Sea level Curve revealing displacement of Indian coastline in the part of Lower Bengal basin* - **International Conference-** 'World Thinkers' and Writers' Peace Meet, 2019 organized by Ramakrishna Mission Vivekananda Centenary College, Rahara.
11. Poster presentation – *Conservation of Plant diversity in Sacred Groves of 4 Blocks of Bankura district, West Bengal* - **International Conference** – Algae, Fungi and Plants: Systematics to Applications (AFPSA-2020) organized by University of Calcutta.
12. Oral presentation – *Bioassemblage indicating Palaeoecology and Palaeoenvironment of Lower Bengal basin, India during Holocene-* **National Seminar** - Diversity in The Era of Globalization; Challenges And Management, 2020 organized by Bidhannagar Govt. College.
13. Oral video presentation – *Alarming trend of change of sea level posing threat to lower Bengal basin, India* - **International Web Conference** on Recent Advances in Science, 2020 – **Best Presenter Award** in the **Biological Sciences** category.
14. Oral video presentation – *Bioassemblages recorded from Holocene sediments revealing the phases of environment of deposition in lower Bengal basin, India* – **3rd Palaeontological Virtual Congress**, 2021 held in **Spain**.
15. Oral presentation - *Study of Bioassemblage Recorded from Holocene Sediments for Understanding Environment of Deposition of Lower Bengal basin, India* – 108th Indian Science Congress 2023 (**International Conference**), Nagpur.

16. Poster presentation – *Vertebrate and Invertebrate remains recovered from Holocene sediments in deducing depositional environment*- CU 1st Botanical Congress 2023 (**International Conference**), Kolkata, West Bengal

[Workshops attended]

1. Workshop on Flowering & Non-flowering Plant identification and Herbarium Methodology – ENVIS Resource Partner, BSI & Gurudas College- 2020 – attended with students to mentor them.
2. Workshop on B.Sc. Practical 2020 – PCRFB, University of Calcutta & CAS, Dept. of Botany, University of Calcutta.
3. Online Workshop – Online Teaching with **MOODLE**, 2020 organized by University of Hyderabad.
4. E-workshop for two days– **Mushroom, Medicinal and Aromatic plant cultivation**, 2020 organized by Mahatma Jyotiba Fule Commerce, Science and Vitthalrao Raut Arts College, Bhatkuli, Dist. Amravati.

10) Honours/Awards conferred (if any):

1. **Best Presenter Award (Poster presentation)** in National Seminar on Recent Trends and Scopes of Modern Biology, 2018 organized by Raidighi College, West Bengal.
3. **Best Presenter Award (Paper presentation)** in the Biological Sciences category in the International Web Conference on Recent advances in Science, 2020 organized by Don Bosco College, Tura, Meghalaya.

11) Membership of National/International Body/Organization (if any):

(ACADEMIC)

I. International Organization of Palaeobotany

II. Indian Science Congress Association

III. Botanical Society of Bengal

(ADMINISTRATIVE)

IV. Elected member (Teachers' Representative) of 9th Governing Body, Bangabasi College

V. Joint Convenor, Admission sub-committee, Bangabasi College

12) Extracurricular activities (any additional information if any):

- (a) Certified with Diploma in IT from NIIT.
- (b) Involved as Internal and External Examiner, Scrutineer, Question setter etc. for University (CU) examinations.
- (c) Conduct Botanical Study tours i.e. excursions (local and outside).
- (d) **Co-supervisor of a Ph.D. student enrolled in Cooch Behar Panchanan Barma University.**
- (e) Involved as Resource person in PG Department of Zoology, Bangabasi College.

- (f) Involved as Resource person in PG Department of Zoology, Serampore College.
- (g) Mentored Botany Honors students to present ORAL PRESENTATION in International Conference – India Biodiversity Meet – 2019.
- (h) Attended Orientation Programme/ Faculty Induction Programme (online) – 2020 & 2021.
- (i) Acted as one of the supervisors deputed by Bangabasi College to mentor students to involve in **Peoples’ Biodiversity Register** programme – an initiative by Kolkata Municipal Corporation in collaboration with West Bengal Biodiversity Board.
- (j) Acted as **Convenor** – State level Interactive Student Seminar (webinar) – 2020 – organized by Dept. of Botany, Bangabasi College in collaboration with IQAC.
- (k) Acted as **Convenor** – International Conference (webinar) 2020 - organized by Dept. of Botany, Bangabasi College in collaboration with IQAC.
- (l) Acted as **Joint Convenor** – National Webinar 2020 – organized by Dept. of Zoology, Bangabasi College in collaboration with IQAC.
- (m) Acted as **Editor** – Botany E-magazine 2021- published by Department of Botany, Bangabasi College.
- (n) Attended Refresher Course (Interdisciplinary) [online]- 2020.
- (o) Attended Refresher Course on *Current Trends in Life sciences* [online] - 2021.
- (p) Attended MHRD approved Online Faculty development Programme on ‘**E-content Development**’, 2020– obtained ‘**GRADE- A+**’.
- (q) Represented college and mentored students by participating in a two days’ **International Webinar** on Youth Skills and Employability in the post-pandemic scenario organized by West Bengal State Council of Higher Education **under the aegis of Higher Education Department, Govt. of West Bengal.**