

1. Personal Details:

Name: *Minu Bharati*

Date of Birth: 24th March, 1992

Nationality: Indian

Sex: Female

Marital status: Unmarried

Languages known: English, Bengali, Hindi

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2. Academic details:

Examination	Board/University	Year of Passing	Division	Percentage	Subjects taken
All India Secondary School Examination (10 th)	Central Board of Secondary Education	2007	1 st	86.0	English, Mathematics, Science, Social science, Hindi
All India Senior School Certificate Examination (12 th)	Central Board of Secondary Education	2009	1 st	79.4	English, Biology, Physics, Chemistry, Mathematics
B.Sc. (Hons.)	University of North Bengal	2012	1 st	63.0	Zoology (H), Chemistry, Botany, Environmental Science, English
M.Sc.	University of North Bengal	2014	1 st	82.3	Zoology (Specialisation in: Cellular and Molecular Immunology)
Ph.D.	University of North Bengal	2020	Title: <i>Insecticide Susceptibility Status and Biochemical Mechanisms Involved in Resistance Development of Major Dengue Vector from Sub-Himalayan West Bengal, India</i>		

3. Date of Joining in W.B.E.S.: 30th September, 2019

4. Details of Research:

4.1 Research experience:

Worked as a Research fellow in *Insect Biochemistry and Molecular Biology laboratory*, Department of Zoology, University of North Bengal on the Ph.D. thesis entitled “***Insecticide Susceptibility Status and Biochemical Mechanisms Involved in Resistance Development of Major Dengue Vector from Sub-Himalayan West Bengal, India***” from 19th November, 2014 to 29th September, 2019.

4.2 Research expertise:

Skilled in Mosquito vector identification; Vector rearing; Surveillance of Insecticide Resistance; Study of Insecticide detoxifying enzyme activity (Qualitative and Quantitative); Genomic DNA isolation; Assessment of knockdown resistance and Insecticide Resistance management.

5. Teaching Experience:

<i>Sl. No.</i>	<i>Name of the Post</i>	<i>Institution</i>	<i>Duration</i>
1.	Assistant Professor in Zoology (W.B.E.S.)	SBS Govt. College, Hili, Dakshin Dinajpur, West Bengal	30 th September, 2019 (Presently serving)

6. Awards, Achievements & Extra Qualifications:

- Awarded Silver medal for holding First class second position in the Post-Graduation course in Zoology (2014) from University of North Bengal.
- Qualified CSIR-UGC National Eligibility Test (NET) Junior Research Fellowship (JRF) on December, 2014.
- Qualified CSIR-UGC National Eligibility Test (NET) Lectureship (LS) on December, 2014.
- Qualified ICMR National Eligibility Test (NET), Award for Junior Research Fellowship (JRF) on May, 2015.
- Qualified GATE in Life Sciences (2016) with 37th All India Rank.
- Qualified West Bengal State Eligibility Test (SET), 2017.

7. List of Published Research Articles:

- **Bharati, M., Saha, D., 2021.** Insecticide resistance status and biochemical mechanisms involved in *Aedes* mosquitoes: A scoping review. *Asian Pacific Journal of Tropical Medicine*. 14(2): 52-63.

- Rai, P., **Bharati, M.**, Saha, D., 2020. Insecticide resistance to Temephos and synthetic Pyrethroids in *Culex quinquefasciatus* say from sub-Himalayan West Bengal, India. *International Journal of Tropical Insect Science*. 9: 1-8.
- **Bharati, M.**, Rai, P. and Saha, D., 2019. Insecticide resistance in *Aedes albopictus* Skuse from sub-Himalayan districts of West Bengal, India. *Acta tropica*. 192: 104-111.
- Rai, P., **Bharati, M.**, Subba, A. and Saha, D., 2019. Insecticide resistance mapping in the vector of lymphatic filariasis, *Culex quinquefasciatus* Say from northern region of West Bengal, India. *PloS one*, 14(5): e0217706.
- Rai, P., **Bharati, M.** and Saha, D. 2019., Assessment of insecticide resistance in *Culex quinquefasciatus* Say with first report on the presence of L1014F mutation from northern districts of West Bengal, India. *International Journal of Tropical Insect Science*. 1-9.
- **Bharati, M.** and Saha, D. 2018., Multiple insecticide resistance mechanisms in primary dengue vector, *Aedes aegypti* (Linn.) From dengue endemic districts of sub-Himalayan West Bengal, India. *Plos One*. 13(9): e0203207.
- **Bharati, M.** and Saha, D., 2018., Differential expression of carboxylesterases in larva and adult of *Culex quinquefasciatus* Say (Diptera: Culicidae) from sub-Himalayan West Bengal, India. *International Journal of Tropical Insect Science*, 38(4): 303-312.
- **Bharati, M.** and Saha, D., 2018. Assessment of insecticide resistance in primary dengue vector, *Aedes aegypti* (Linn.) from Northern Districts of West Bengal, India. *Acta tropica*. 187: 78-86.
- **Bharati, M.**, Saha, P. and Saha, D., 2018. Variation in esterase activity among different *Aedes aegypti* L. populations from the Dooars and Terai Regions of West Bengal, India. In *Proceedings of the Zoological Society*. 71(3): 239-247.
- **Bharati, M.** and Saha, D., 2017. Insecticide susceptibility status and major detoxifying enzymes' activity in *Aedes albopictus* (Skuse), vector of dengue and chikungunya in Northern part of West Bengal, India. *Acta tropica*. 170: 112-119.

8. List of Published Book Chapters:

- **Bharati, M.** and Saha, D., 2017. Mosquito Borne Diseases: Current Status and Control Approach in India. In: *Vector-Borne Diseases & Treatment*. Openaccess ebooks. ISBN: 978-93-87500-10-5. Las Vegas, USA.

- Rai, P., **Bharati, M.** and Saha, D., 2018. Vector-Borne Diseases & Treatment. In: *Vector-Borne Diseases & Treatment (II)*. Openaccess ebooks. ISBN: 978-93-87500-28-0. Las Vegas, USA.
- Saha, D. and **Bharati, M.** 2019. Insect pests of medical importance and their management. In: *Commercial Entomology*. New India Publishing Agency. ISBN: 978-93-87973-87-9. New Delhi, India.

9. List of Paper Presentation/ Participation at Conferences/ Seminars:

- Presented a research paper entitled “*Insecticide resistance profiling in wild populations of Aedes albopictus Skuse from sub-Himalayan West Bengal, India*” in “West Bengal 26th State Science Congress” held at Science city, Kolkata on 1st March, 2020.
- Presented a research paper entitled “*Assessment of Insecticide Resistance in Wild Populations of Aedes albopictus Skuse from Sub-Himalayan West Bengal, India*” in “West Bengal 26th State Science Congress” held at Science city, Kolkata on 28th Feb, 2019.
- Presented a research paper entitled “*Spatial Variation and Insecticide Susceptibility Status of Aedes albopictus against Three Major Groups of Insecticide in Sub-Himalayan West Bengal, India*” in “Golden Jubilee International Conference on Trends in Zoology” at Burdwan University, Burdwan on 3rd January, 2019.
- Presented a research paper entitled “*Insecticide Resistance Profiling in Wild Populations of Aedes albopictus Skuse from Sub-Himalayan West Bengal, India*” in “India International Science Festival 2018” held at Indira Gandhi Pratisthan, Lucknow on 06th October 2018.
- Presented a research paper entitled “*Multiple Insecticide Resistance in Primary Dengue Vector, Aedes aegypti (Linn.) From Dengue Endemic Districts of sub-Himalayan West Bengal*” in “National Conference on Recent Trends in Zoological Research in North East India” held at North Eastern Hill University, Shillong on 20th April, 2018.
- Presented a research paper entitled “*Spatiotemporal Variation in Abundance and Habitat Preference of Aedes Mosquitoes in Northern Part of West Bengal, India*” in “2nd Regional Science Congress 2017” held at Siliguri college, Siliguri on 8th December, 2017.
- Presented a research paper entitled “*Insecticide Susceptibility Status and Underlying Biochemical Mechanisms Among Different Aedes Albopictus S. Populations from Three Sub-Himalayan Districts of West Bengal, India*” in International Zoology Seminar On “Concepts on Conservation and Propagation of Indigenous Life forms in Eastern Himalayan Region” held at Darjeeling govt. college, Darjeeling on 12th May, 2017.

- Presented a paper entitled “*Variation in major insecticide detoxifying enzymes’ activity among different Aedes albopictus S. populations from three districts of sub-Himalayan West Bengal, India*” in 24th West Bengal State Science congress 2016 (State level) on 28th February, 2017.
- Presented a paper entitled “*Insecticide susceptibility status and major detoxifying enzymes activities in Aedes albopictus (Skuse), vector of dengue and chikungunya in Northern part of West Bengal, India*” in “*ZooCon 2017: Animal Science in 21st Century*” to be held at Department of Zoology on 11th and 12th February, 2017.
- Presented a paper entitled as “*Variation in major insecticide detoxifying enzymes’ activity among different Aedes albopictus S. populations from three districts of sub-Himalayan West Bengal, India*” in 24th West Bengal State Science congress 2016 on 7th November, 2016. (Jalpaiguri Division).
- Presented a paper entitled as “*Variation in esterase activity among different sub-Himalayan populations of Stegomyia (=Aedes) aegypti L.*” in UGC sponsored National Seminar on “*Advances in Biology: Eastern Himalayan perspective*” during 3rd and 4th October, 2015.
- Participated in National conference on “*Nanotechnological Applications in Biological Research for human welfare*” at University of North Bengal during 6th and 7th February, 2016.
- Participated in National conference on natural resources, biodiversity and sustainable development at Department of Zoology during 11th and 12th December, 2015.
- Participated in satellite conference on “*Science in Bengal*” in 22nd West Bengal State Science congress 2015 at University of North Bengal during June 3rd and 4th, 2015.
- Participated in 22nd West Bengal State Science Congress and made co-authored a presentation entitled as “*Prospect of herbals in mosquito management*” in Medical Science and physiology section at Department of Zoology during February 28th and March 1st, 2015.

10. Workshop/ Skill Upgradation Programme Attended:

- Participated in National Workshop on “*Straining on Fish Nutrition and Feeding Management in Aquaculture for Sustainable Development*” at Fisheries Research and Training Centre, Department of Zoology, University of North Bengal during 2nd and 3rd February, 2019.

- Participated in “*Author workshop*” conducted by Elsevier Publishers in association with Department of Science and technology, Government of West Bengal on 2nd December, 2016.

- Participated in National Workshop on “*Skill up-gradation on processing of fish and fishery products*” at Department of Zoology, University of North Bengal during 13th and 14th August, 2015.