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2. Designation: Scientist-C
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4. Area of S&T Function: Zoology, Entomology, Muga Silkworm Seed Sector,
& Disease management
5. Father's Name: (Lt) Harsh Bardhan Guha
6. Date of Birth: 19th September 1986
7. Gender: Female
8. Nationality: Indian

EDUCATIONAL QUALIFICATION:

DEGREE	UNIVERSITY/ BOARD	YEAR OF PASSING	PERCENTAGE	DIVISION
Ph.D.	Jiwaji University	2014	-	-
M.Sc.	University of Calcutta	2008	66.3%	I
B.Sc.	University of Calcutta	2006	65.25%	I
10+2	CBSE	2003	83.2%	I
X	CBSE	2001	84.2%	I

ACHIEVEMENTS

- Qualified UGC-CSIR NET examination June 2009.
- Qualified K-SET (Karnataka State Eligibility Test) February 2015.
- Awarded best paper award for entomological sciences in the year 2012 and 2014.
- Being among 0.1% of successful candidates in biology for outstanding academic performance in AISSCE 2003.
- Qualified for National level in K.V.S. Science Exhibition 1999.

PUBLICATIONS:

- Synthesis and bio-evaluation of aryl hydrazono esters for oviposition responses in *Aedes albopictus*. *Bioorganic Medicinal Chemistry Letters*, 2011, 21:794-797.
- Oviposition and flight orientation response of *Aedes aegypti* to certain aryl hydrazono esters. *Parasitology Research*, 2012, 111: 975-982.
- Behavioural and electrophysiological responses of *Culex quinquefasciatus* to certain fatty acid esters. *Acta Tropica*, 2013, 128: 606-612.
- Olfaction in Asian tiger mosquito *Aedes albopictus*: flight orientation response to certain saturated carboxylic acids in human skin emanations. *Parasitology Research*, 2014, 113:1927-1932.
- Behavioural and electrophysiological responses of *Aedes albopictus* to certain acids and alcohols present in human skin emanations. *Parasitology Research*, 2014, 113: 3781-3787.
- Forced egg retention and oviposition behavior of malaria, dengue and filariasis vectors to a topical repellent diethyl-phenylacetamide. *Indian J Exp Biol*, 2015, 53: 440-445.
- Forced egg retention induced by diethyl-phenylacetamide diminishes the fecundity and longevity of dengue vectors, *J Vector Borne Diseases*, 2015, 52: 309-313.
- Govt explores Indo-Bangla border for muga rearing *The Meghalaya Guardian*, 25 Nov, 2019.
- Muga Vanya Krishi Vigyan Mela held in Mendipathar. *Meghalaya Media Provider News Agency*, 6 December, 2019. <http://meghalaya.gov.in/megcms/sites/default>

/files/press_release/Muga_Vanya_Krishi_Vigyan_Mela.pdf.

- Ichneumon wasp *Xanthopimpla pedator*-a pupal parasitoid of Muga silkworm *Antheraea assamensis*. *Int. J. Adv. Res. Biol. Sci.*, 2021, 8(7): 152-156.
- Probing the potentiality of the defoliator *Cricula trifenestrata* Helfer silk: a revisit *Bulletin of the National Research Centre*, 2021: 45(215) doi.org/10.1186/s42269-021-00669-w. Springer Nature.

Workshops and Paper presentations:

- Insect traps: A useful and eco-friendly tool for pest management in muga culture. Conference: *National Seminar on Conservation of Biodiversity & Microbial Diversity with potential for application in Agriculture and Sericulture in North East India. 25-26 March 2022* organized by USTM, Meghalaya.
- Analysing the Impact of Climatic Changes on Rearing Performance of *Antheraea assamensis* (Muga Silk Worm): Study of a Decade *Silk beyond the Textile 25th International Congress on Sericulture and Silk Industry 19th to 22nd November 2019* organized by International Sericultural Commission and the Ministry of Agriculture, Forestry and Fisheries (MAFF) at Tsukuba, Japan.
- Climate Changes Influencing Geographical Pattern Of Vector Borne Diseases in Indian Council of Philosophical Research sponsored International Conference on Environmental justice: culture, resistance and ethics, 24-25 March 2017, organized by Dr. K.N. Modi University, Newai, Rajasthan.
- Differential olfactory response of *Aedes albopictus*, to human skin emanations from various body parts in *13th Conference on Vector and Vector Borne Diseases*, 27 Feb to 1 Mar, 2017, Chennai, organized by Central University of Tamilnadu.
- Workshop on *Virtual Demonstration of Animal Dissection Using Software* on 10th February, 2017, The IIS University, Jaipur, Rajasthan.
- Symposium on *Regulation and Management of Experimental Animal Models* on 2 September, 2017, The IIS University, Jaipur, Rajasthan.
- *Seven Day Faculty Training Program Workshop on Advance Techniques in Biosciences* from 6-12 December 2016, The IIS University, Jaipur, Rajasthan.
- *tiNai Ecofilm Festival themed Celebrating Life* and a workshop on *Practical Ecocriticism* on 18th and 19th March 2016, Dr. K.N. Modi University, Newai, Rajasthan.
- National Seminar on *Protection of Plant Varieties and Farmers' Right* sponsored by PPVFRA, IIS University, on 10 March, 2016.
- Pregnancy and Malaria. *National Conference on Reproductive Health, ISSRF*, IIS University, Jaipur 2015.
- Oviposition and flight orientation response of *Culex quinquefasciatus* to certain fatty acid esters. *XII International Conference on Vector and Vector Borne Diseases*, Mohanlal Sukhadia University, Udaipur, 2013.
- Flight orientation and electro-antennogram response of *Aedes albopictus* to certain unsaturated acids and alcohols. National Conference on New Frontiers for Women in Science and Technology, Jiwaji University, Gwalior 2013.
- Forced egg retention induced by Diethyl-phenylacetamide diminish the fecundity and longevity of dengue vectors. *100th Indian Science Congress*. University of Calcutta, Kolkata 2013.
- Reproductive strategies of dengue vectors and its implications in vector control. *National Seminar on Science shaping the future of India*, MP Science and Technology, Bhopal 2012.
- Lethal-ovitrap for dengue vector, *Aedes aegypti* (Culicidae: Diptera). *National Seminar on Science shaping the future of India*, MP Science and Technology, Bhopal 2012.
- Oviposition response of dengue and chikungunya vector to certain aryl hydrazono esters: a structure activity relation. *99th Indian Science Congress* KIIT University, Bhubaneswar 2012.
- Oviposition responses of *Aedes aegypti* to novel aryl hydrazono esters. 8th Joint Annual Conference of ISMCD& IAE, Regional Medical Research centre, Bhubaneswar 2011.

- Egg retention and Oviposition behaviour of malaria mosquito, *Anopheles stephensi*. *8th Joint Annual Conference of ISMCD& IAE*, Regional Medical Research centre, Bhubaneswar 2011.
- Comparative study on the fecundity and longevity of dengue and chikungunya vectors. *International Symposium on Recent Advances in Ecology and Management of Vectors and Vector borne diseases*, Defence Research and development establishment, Gwalior 2010.

DISSERTATIONS SUPERVISED

- Study on seasonal diversity of migratory birds in Keoladeo National Park.
- Study the biodiversity of planktons in different fresh water ecosystems around Jaipur.
- Detection of pesticides in soil and ground water from different sites of Rajasthan.
- A Study to monitor the effect of temperature, humidity and UV radiation in wild *Drosophila sp.*
- Life table studies to show the effect of different food type on the survivability and fecundity in *Drosophila melanogaster*