

RESUME

PERSONAL INFORMATION

Name : Dr. Shimantini Borkataki
Date of Birth : December 03, 1989
Present Designation : Assistant Professor
Corresponding Address : Department of Entomology
Assam Agricultural University
Jorhat – 785013, Assam
Permanent Address : C/o Mr. Pradip Borkataki
Poly Technic Road,
Nagaon – 782003, Assam, India
Mailing Address : shimantini.bk@gmail.com
shimantini.borkataki@aau.ac.in
Contact : +918876186839/+918456942979
Category : General (Unreserved)



ACADEMIC RECORD

Educational Qualification:

Degree	Institute/ University	Year	Class/ Grade	% of marks/ CGPA	Area of specialization
Ph. D.	Assam Agricultural University	2018	1 st class	8.85 (on 10 scale)	Entomology (Departmental Topper)
M.Sc. (Agri.)	Assam Agricultural University	2014	1 st class with Distinction	9.01 (on 10 scale)	Entomology (Departmental Topper)
B.Sc. (Agri.)	Assam Agricultural University	2012	1 st class	7.94 (on 10 scale)	Agriculture
ASRB NET	Agricultural Scientists Recruitment Board	2018	Qualified	-	Agricultural Entomology
Diploma in computer application	Royal Commercial Institute, Jorhat	2008	Qualified	-	Computer application

Field of Specialization:

- ✓ M. Sc. and Ph. D. in Agriculture with specialization in Entomology

Subarea of specialization:

- ✓ Insect Biodiversity, Taxonomy, Meliponiculture and Chemical Ecology

SERVICE DETAILS

Service details (from present to past):

Post	Organization	Duration		Experience (In months)
		From	To	
Assistant Professor (Entomology)	Assam Agricultural University Jorhat (Assam)	05.08.2019	Till date	3 years 9 months
Assistant Professor (Entomology)	M.S. Swaminathan School of Agriculture, Centurion University, Paralakhemundi (Odisha)	03.09.2018	02.08.2019	10 months
Assistant Professor (Entomology)	Gandhi Institute of Engineering and Technology University, Gunupur (Odisha)	28.01.2018	30.08.2018	8 months
Senior Research Fellow	Network Project on "Conservation of Lac Insect Genetic Resources", Department of Entomology, AAU, Jorhat	14.11.2014	30.01.2016	14 months

Nature of work:

Post	Nature of Work
Assistant Professor (Entomology) AAU, Jorhat	<ul style="list-style-type: none"> • Teaching (Undergraduate and Post Graduate courses) • Engaged in research related to Meliponiculture as an Associated Scientist under All India Coordinated Research Project (AICRP) on Honeybees and Pollinators • Co-PI, DBT funded project "Exploiting Chemical Ecology for IPM: Deciphering the Phyto-semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India • Member, Academic Cell, Faculty of Agriculture, AAU, Jorhat • In-charge, Language Laboratory, Faculty of Agriculture, AAU, Jorhat • Member, University Level Videography Committee for e-learning videos • Member, Monitoring Team, Rural Agril. Work Experience Programme
Assistant Professor (Entomology) MSSSoA, Odisha	<ul style="list-style-type: none"> • Teaching (Undergraduate courses) • Administrative work related to the University
Assistant Professor (Entomology), GIET, Odisha	<ul style="list-style-type: none"> • Teaching (Undergraduate) • Administrative work related to the University
Senior Research Fellow NP-CLIGR, AAU	<ul style="list-style-type: none"> • Research related to conservation of lac insect under in situ and ex situ conditions • Identification of potential pocket of lac insects and their hosts • Extensive survey, collection of lac insects from Assam and West Bengal • Preparation of technical reports • Extension activities related to entrepreneurship development

TEACHING RECORDS

Courses teaching

Course No.	Title of the course(s)	Credit Hours
A. Undergraduate courses		
College of Agriculture, Jorhat campus		
ENT-123	Fundamentals of Entomology	3(2+1)
ENT(Elective)-313	Economic Entomology including Integrated Pest Management (IPM)	3(2+1)
College of Horticulture, Jorhat campus		
PP(ENT)-213	Fundamentals of Entomology	3(2+1)
B. Postgraduate courses (M. Sc./Ph. D.)		
Department of Entomology		
ENT-601	Advanced Insect Systematics	3(1+2)
ENT-611	Molecular basis of entomological research	3(1+2)
ENT-504	Insect Taxonomy	3(1+2)
ENT-505	Insect Ecology	2(1+1)

Number of UG/PG students guiding/guided:

Sl. No.	Department/Institution	No. of students	Degree Programme	Year
A. As a Mentor/Advisor				
1.	Department of Entomology, AAU	10	UG	B. Sc. (Agri.) 1 st year
2.	Department of Entomology, AAU	10	UG	B. Sc. (Agri.) 2 nd year
B. As a Major Advisor				
3.	Department of Entomology, AAU	02	PG	M. Sc. (Agri.) 1 st year
4.	Department of Entomology, AAU	02	PG	M. Sc. (Agri.) 2 nd year
5.	Department of Entomology, AAU	02	PG	Passed out
C. As a Research Advisory Committee member from the major department				
6.	Department of Entomology, AAU	03	PG	M. Sc. (Agri.) 2 nd year
7.	Department of Sericulture, AAU	01	PG	Passed out
8.	M. S. Swaminathan School of Agriculture	02	PG	Ph. D. 3 rd year

Additional responsibilities

- Executive member of Assam Agricultural University Teachers' Association, AAU
- Member of Departmental Academic Council Committee (DACC), Department of Entomology, AAU, Jorhat

PUBLICATION/ AWARDS AND RECOGNITION

Publication type	NAAS ≥ 6	NAAS ≤ 6	NAAS ≤ 5	Total
Research papers	4	10	2	16
Review articles	2	5	-	7
Book	-	-	-	1
Book chapters	-	-	-	2
Research bulletins	-	-	-	4
Training/ Practical Manual	-	-	-	3
e-learning videos	-	-	-	2
Popular articles	-	-	-	2
Total publication	-	-	-	37

Publications (Above NAAS 6):

Sl. No.	Author/Authors	Year	Title of paper	Journal or Book	NAAS Journal Code & rating if any
1.	Borkataki, S., Das. P., Deka, R. L, Borua, I. C., Sarma, A. and Saud, B. K.	2017, 20 (1): 98-101	Influence of weather factors on incidence and intensity of Black inch worm (<i>Hyposidra talaca</i> walker) on <i>Clerodendrum indicum</i> (L.) Kuntze at Jorhat	<i>Journal of Agrometeorology</i>	6.40
2.	S. Borkataki,S., Bhattacharyya, B., Sen, S., Taye, R. R., Reddy, M. D. and Nanda, S. P.	2021, 120 (11): 1692-97	Torpor in insects	<i>Current Science</i>	7.17
3.	Borkataki, S., Bhattacharyya, B., Medhi, B. K. and Bhagawati, S.	2021, 42 :333-342	Impact of water quality parameters on aquatic insect fauna of Majuli river island, Assam, India	<i>Journal of Environmental Biology</i>	6.78

4.	Taye, R. R., Rahman, A., Bathari, M. and Borkataki, S. ,	2021, 42 :379-387	Species diversity, taxonomy and morphometric study of bumble bees in Northeast India	<i>Journal of Environmental Biology</i>	6.78
5.	Sen, S., Borkataki, S. and Nanda, S. P.	2022: 12-25	Ecological perspective in urban areas with increased urbanization	<i>Scientist</i>	6.85
6.	Bhattacharyya, B., Handique, G., Borkataki, S. and Boruah, R.	2023 https://doi.org/10.1007/s42690-023-00978-9	Surviving submergence in larval stage: a strategy of <i>Lepidota mansueta</i> Burmeister (Coleoptera: Scarabaeidae) living on flood plains of Majuli river island	<i>International Journal of Tropical Insect Science</i>	7.02

Book

Edited Book "*New Vistas in Entomology*"; Ataur Rahman, Inee Gogoi and Shimantini Borkataki

Practical Manual

PP(ENT)-213 : Fundamentals of Entomology (For College of Horticulture)

ENT-123 : Fundamentals of Entomology (For College of Agriculture)

ENT(ELE)-313 : Economic Entomology including Integrated Pest Management (IPM) (For College of Agriculture)

Research bulletins

- *Kerria lacca* -The Indian Lac Insect (Bulletin No. AAU/DR/15(BU)/92/2015-16)
- La Prakritik Aibidh Anabadya Upadan (Bulletin No. AAU/DR/15(BU)/91/2015-16)
- Lac – A Natural Resin (Bulletin No. AAU/DR/15(BU)/90/2015-16)
- Upokari La Patanga (Bulletin No. AAU/DR/15(BU)/93/2015-16)

Popular articles

- Why the term "Mother Medicine" is used for Stingless bee honey. *Agriculture and Environment e-Newsletter*. AEN-2022-03-02-010. 3(2):35-37.
- Possibilities of Pollinator Conservation under Solar Farming. *Agriculture and Environment e-Newsletter*. AEN-2022-03-03-012. 3(3):44-46

Technical writing experience

- Edited one book *New Vistas in Entomology*, Edited by: Ataur Rahman, Inee Gogoi and Shimantini Borkataki, published by Narendra Publishing House, Delhi, India
- Compiled (Department of Entomology at a glance; PRT booklet)
- Compiled and prepared Annual Report of Lac project (2014-15 and 2015-16)
- Compiled and prepared Annual Report of Chemical ecology project (2021-2022)
- Compiled and prepared Technical Report of NAHEP Training on:
 - a. Skill in Handling and Management of Agrochemicals and their impact on Health and Environment after 75 years of Independence
 - b. Apiculture with special reference to pollinator diversity and pollination services in agricultural ecosystem

- Compilation of proceedings of Technical Committee Meetings (*Kharif and Rabi*) on plant protection aspects
- Compilation and preparation of proceedings of Board of Studies, Faculty of Agriculture
- Associated with preparation of SSR/DPR of M. S. Swaminathan School of Agriculture, Centurion University of Technology and Management
- Compiled and prepared Academic Regulation Book, guidelines for thesis preparation and RAWEP Manual of M. S. Swaminathan School of Agriculture, Centurion University of Technology and Management

Documentary and e-learning video

- ✓ Script writer of one documentary and e-learning videos (6 Nos)
- ✓ Contributed in planning, shooting, editing and uploading of e-learning videos (sponsored by ICAR Development Grant) for UG Practical Classes on **Agri-DIKSHA portal, ICAR**

Innovation in Teaching and learning

- ✓ Explored “Fibre glass” technology and “*Traditional Mukha Silpa*” to prepare innovative teaching model in the field of Entomology

Patent applied

- A novel portable device for Xylocopiculture

Awards and Recognition

- Received Prof. Md. Sharifullah Memorial Gold Medal for securing highest CGPA in the M. Sc. (Agri.) Degree Programme in the Department of Entomology
- Received Rashtrapati Guide Award from the Hon'ble President (Former), Dr. A. P. J. Abdul Kalam in 2006 for service to society and mankind
- Member of Society for Advancement of Natural Resins and Gums, ICAR-IINRG, Ranchi
- Life member of Indian Red Cross Society, India
- Graduate and Post Graduate (M. Sc. and Ph. D.) University Merit Scholarship

Additional information:

Being an active researcher, Dr. Borkataki has worked on meliponiculture *i.e.*, rearing of stingless bees and has guided two students to complete their master's research on brood rearing and foraging activity of stingless bee (*Tetragonula iridipennis* Smith) in cucumber under protected condition and exploring the therapeutic properties of honey of stingless bees, *Tetragonula iridipennis* Smith. Promising results have been observed from these experiments and a total two technologies in terms of standardisation of technique for studying life cycle of stingless bee and standardization of wooden box for better hive development have been reported. She has been associated with the AICRP on Honey bees and Pollinators and DBT Funded Project on "Deciphering the phytosemiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India". She has also studied the diversity of aquatic insect fauna and water quality parameters of wetlands of Majuli river island. She has been credited for maiden report of 48 aquatic insect species from this island. During her M. Sc. research, she had reported 23 insect pest species from six medicinal and aromatic plants *viz.*, *Clerodendrum indicum* (L.) Kuntze, *Homalomena aromatica* Schott., *Piper longum* Linn., *Aloe vera* (L.) Burm. f., *Vanilla planifolia* Andr. and *Rauvolfia serpentina* Benth ex. Kurz. She has also been credited for maiden report of *Aulacophora foveicollis* and *Aphis craccivora* on *Clerodendrum indicum* from North East India.

REFERENCES

Sl. No.	Name	Designation	Contact details
1.	Dr. K. K. Sharma	Former Director, ICAR-Indian Institute of Natural Resins and Gums, Project Coordinator, NP on CLIGR, Namkum - 834010, Ranchi	kewalkks@gmail.com +919006773784
2.	Dr. M. D. Reddy	Former Director, Water Technology Centre, Professor Jayashankar Telangana State Agricultural University, Rajendranagar, Hyderabad and present Dean(Acad.), MSSSoA, Odisha - 761211	devender.reddy@cutm.ac.in +919078521286/9848862112
3.	Dr. C. R. Satapathy	ICAR – Emeritus Scientist Former Professor and Principal Investigator, AICRP on Honeybees and Pollinators (ICAR) Department of Entomology, College of Agriculture, OUAT, Odisha	crsatapathy@rediffmail.com +917978757202/9437013677

DECLARATION

I do hereby declare that all statements made in the application are true, complete and correct to the best of my knowledge and belief. In the event of any information being found false or incorrect my candidature/ application may be cancelled/ terminated.

Date: 31.03.2023

Place: Jorhat, Assam, India



(Shimantini Borkataki)