

CURRICULUM VITAE

Md. Niaz Morshed

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My current research focuses on tri-trophic (crop-pest-parasitoid) interactions in agricultural ecosystems in the context of climate change. I hold an M.Sc. in Entomology and possess over seven years of professional research experience in entomology, rice disease management, plant breeding, and adaptive agricultural research. I have a strong background in insect-plant interactions, insect pest management in rice ecosystems, molecular and conventional plant breeding, and the conservation of natural enemies. I am particularly interested in sustainable agricultural practices and the ecological aspects of pest control under changing climatic conditions.

Key Skills:

- Integrated pest management, greenhouse, adaptive trial, technology validation and dissemination
- Conventional plant breeding (rice breeding)
- PCR, Tissue culture technique, separation and identification of compounds by HPLC
- Basic techniques in biotechnology, laboratory safety and personal hygiene
- Computer Skills: R Studio, STAR, LdP Line (Probit Analysis), SPSS, Statistics10, Microsoft Office

Work Experience:

1. Senior Scientific Officer

Adaptive Research Division, Bangladesh Rice Research Institute (BRRI), Gazipur-1701, Bangladesh
(May 15, 2025 – present)

2. Scientific Officer

Adaptive Research Division, Bangladesh Rice Research Institute (BRRI), Gazipur-1701, Bangladesh
(January 03, 2022 – May 15, 2025)

Responsibilities:

- Conduct Advanced line adaptive research multi location trial, screening of rice varieties against major rice insects in different agroecological conditions, identify plant-insect interaction & development of insect resistant rice varieties, integrated pest management, climate-smart management for intensive rice based cropping pattern, prepare annual research plan, farmers' training on modern rice technologies, data collection, summarize & validate data using advanced statistical tools, data interpretation and report writing

3. Scientific Officer

BRRI Regional Station, Sonagazi, Feni, Bangladesh
(August 01, 2017 – December 28, 2021)

Responsibilities:

- Conducted regional and advanced yield trial in south-east coastal region, effect of weather variable on seasonal abundance of rice insects, conventional rice breeding, identify adaptability & suitability of rice varieties of coastal & saline region, develop rice based cropping pattern profitable to farmers, germplasm collection & characterization, conduct variety screening activities based on the consumer and grower demand, breeder seed production, Prepare annual research plan, data collection, summarize and analyze data using advanced statistical tools, data interpretation and report writing

4. Research Assistant

Insect Biotechnology and Biopesticide Laboratory, Department of Entomology, Bangladesh Agricultural University
(January 01, 2016 – July 30, 2017)

Project Title: Investigation of biorational methods for controlling major insect pests infesting vegetables in Bangladesh

Responsibilities:

- Project implementation, evaluation of biochemical & microbial insecticides against bean aphid, cucurbit fruit fly, rice weevil & jassid by both laboratory and field trial, assessment of advanced breeding lines against insects, conduct field trial of rice, bean, bitter gourd & brinjal landraces for screening, data collection, validate data by probit analysis, SPSS & Crop stat tools, data interpretation and report writing

Education:

Degree	: Master's in Entomology
CGPA	: 3.922 (out of 4)
Year	: July 2016- December 2017
University	: Bangladesh Agricultural University (BAU), Mymensingh.
Major	: Entomology
Thesis Title	: Efficacy of Some Biorational Insecticides Against Bean Aphid, (<i>Aphis craccivora</i> Koch.) Under Laboratory Condition
Degree	: Bachelor of Science in Agriculture (Hons.)
CGPA	: 3.777 (out of 4)
Year	: January, 2012 – June, 2016
University	: Bangladesh Agricultural University (BAU), Mymensingh.
Major	: Agriculture
Degree	: Higher Secondary School Certificate (H.S.C.)
GPA	: 5.00 (out of 5.00)
Year	: 2011
College	: Shahid Smrity College, Swarupkathi (Nesarabad), Pirojpur
Major	: Science
Degree	: Secondary School Certificate (S.S.C.)
GPA	: 5.00 (out of 5.00)
Year	: 2009
College	: Swarupkathi Collegiate Academy, Swarupkathi (Nesarabad), Pirojpur
Major	: Science

Publications:

1. Rahman, M.M., **Morshed, M.N.**, Adnan, S.M. and Hawlader, M.T.H. 2024. Assessment of biorational larvicides and botanical oils against *Culex quinquefasciatus* Say (Diptera: Culicidae) larvae in laboratory conditions. *Heliyon*, 10 (11) e31453, <https://doi.org/10.1016/j.heliyon.2024.e31453>.
2. **Morshed, M.N.**, Al Mamun, M.A., Rahman, M.M., Sultana, N. and Hawlader, M.T.H. 2023. Managing sucking pests biorationally considering bean aphid, *Aphis craccivora* Koch. as an example. *Archives of Phytopathology and Plant Protection*. 56:14, 1076-1092. <https://doi.org/10.1080/03235408.2023.2256665>
3. **Morshed, M.N.**, Al Mamun, M.A., Nihad, S.A.I., Rahman, M.M., Sultana, N. and Rahman, M.M. 2023. Effect of weather variables on seasonal abundance of rice insects in southeast coastal region of Bangladesh. *Journal of Agriculture and Food Research*. 11: 100513. <https://doi.org/10.1016/j.jafr.2023.100513>
4. Hossain, M.Z., **Morshed, M.N.**, Rahman, M.M., Uddin, M.E., Hera, M.H.R., Sultana, N. and Hashem, M.A. 2023. Yield response of rice (*Oryza sativa* L.) to elevated potassium applied under the irrigated ecosystem of Bangladesh. *Eurasian Journal of Soil Science*. 12(2):104-107. <https://doi.org/10.18393/ejss.1198190>
5. Joarder, J., **Morshed, M.N.**, Das, G. 2023. Relative Efficacy of Some Chitin Synthesis Inhibitors on the Mortality of Okra Jassid, *Amrasca biguttula biguttula* (Ishida). *American Journal of Entomology*. Vol. 7, No. 1, 2023, pp. 23-29. [doi: 10.11648/j.aje.20230701.14](https://doi.org/10.11648/j.aje.20230701.14)
6. Moniruzzaman, M., **Morshed, M.N.**, Rahman, M.M., Uddin, M.E., Hera, M.H.R., Sultana, N. and Hashem, M.A. 2022. Can nitrogen fertilizer rates affect the yield response of Boro rice (*Oryza sativa* L.) variety on the Old Brahmaputra floodplain soil of Bangladesh?. *International Journal of Biosciences*, 21(2):27-33. <http://dx.doi.org/10.12692/ijb/21.2.27-33>
7. **Morshed, M.N.**, Uddin, M.E., Hera, M.H.R. and Sultana, N. 2020. Effect of temperature, rainfall and relative humidity on seasonal incidence of major rice insect pests. *International Journal of Biosciences*, 17(6): 92-102. <http://dx.doi.org/10.12692/ijb/17.6.92-102>
8. Shaki, S., **Morshed, M.N.**, Sultana, N. and Das, G. 2020. Comparative Efficacy of Some Newer Insecticides Against Rice Leaf Folder (*Cnaphalocrosis Medinalis* Guen.) and their effects on natural enemies in Rice

- Ecosystem. *Tropical Agrobiodiversity*, 1(2): 55-59. <http://doi.org/10.26480/trab.02.2020.55.59>
9. **Morshed, M.N.**, Howlader, M.T.H., Islam, M.R., Sultana, N. and Hera, M.H.R. 2020. Effect of abiotic factors on the seasonal incidence of Rice yellow stem borer, *Scirpophaga incertulas* (Walker) and rice leaf folder, *Cnaphalocrocis medinalis* (Guenee) population at the south-east coastal region of Bangladesh. *Journal of Entomology and Zoology Studies*, 8(3): 1321-1326.
 10. Hasan, M.Z., **Morshed, M.N.**, Islam, M.A., Hera, M.H.R., and Islam, K.S. 2020. Effects of different concentrations of Chitosan on shelf life and quality of Mango. *Sustainability in Food and Agriculture (SFNA)*, 1(1): 20-5. <http://doi.org/10.26480/sfna.01.2020.20.25>
 11. Hasan, M.Z., Islam, M.A., Hera, M.H.R., **Morshed, M.N.** and Hassan, M.K. 2020. Effects of different coating materials on shelf life and quality of mango. *Trends in Horticultural Research*, 10(1):1-10.
 12. Rahman, M. M., Howlader, M. T. H., Islam, K. S., & **Morshed, M. N.** 2019. Efficacy of three biopesticides against cucurbit fruit fly, *Bactrocera cucurbitae* Coquillett (Diptera: Tephritidae) and yield of bitter gourd. *Journal of the Bangladesh Agricultural University*, 17(4), 483-489. <https://doi.org/10.3329/jbau.v17i4.44616>

Project building, Execution and Collaboration:

- Program for determining the cost acceptability and profitability of advanced rice varieties along with Nerika in the mountainous region (Proposal for program finance from the non-development budget-PPNB)
- Development and Validation of High Beta- carotene Rice (Golden Rice Project)
- Head to head Adaptive trial of modern Rice varieties” under Transforming Rice Breeding Project
- Climate-smart practices and varieties for intensive rice-based systems in Bangladesh and Cambodia” (IRRI Ref. No.: A-2016-167) Implemented by BRRI & IRRI and financed by Asian Development Bank (ADB)

Training:

SN	Training Course	Year	Duration	Organization and Venue
1	Research Data Management Using Spreadsheet	2024	13-18 January	Bangladesh Rice Research Institute (BRRI), Gazipur
2	ToT on Teaching Methods/ Techniques	2022	20-24 November	National Agriculture Training Academy (NATA), Gazipur
3	Two months Modern Rice Production Technologies	2022	27 January-27 March	Bangladesh Rice Research Institute (BRRI), Gazipur
4	Advanced Research Data Management and Refresher Course on Scientific Report Writing	2021	23-28 October	Bangladesh Rice Research Institute (BRRI), Gazipur
5	Scientific Report Writing	2021	13-17 June	Bangladesh Agricultural Research Council, Dhaka
6	Using High Throughput Phenotypic System for C ₄ Rice Research	2021	06-07 June	Bangladesh Rice Research Institute (BRRI), Gazipur
7	Digital Security Essentials	2020	31 March	a2i program, ICT Division, Bangladesh
8	Research Methodology	2020	16-29 February	Graduate Training Institute, BAU, Mymensingh
9	Agricultural Research Methodology	2019	16-20 November	Bangladesh Rice Research Institute (BRRI), Gazipur
10	Basic Molecular Biology and Disease Resistance	2019	23-28 March	Bangladesh Rice Research Institute (BRRI), Gazipur
11	4 th National Conference on Natural Science and Technology: Promoting Women in Science	2017	24-25 March	Asian University For Women, Chittagong, Bangladesh
12	Training in Basic Biotechnology	2016	22-27 October	National Institute of Biotechnology, Savar
13	Organization Structure of Upazila Level Govt. and non-Govt. Offices and Their Activities	2015	09-14 August	Dept. of Agricultural Extension Education, BAU
14	Basics of MS Office	2015	25 January-05 February	Graduate Training Institute, BAU, Mymensingh

Honors and Awards***:

1. **Japanese Government (MEXT) Scholarship-2024**
Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
[01 October, 2024] – [30 September, 2027] Awarded full scholarship for academic excellence and research potential.
2. Outstanding contribution award for successfully completion of ‘*Annual Performance Agreement 2020-21*’ of Bangladesh Rice Research Institute, Regional Station, Sonagazi, Feni
3. National Science and Technology (NST) Fellowship-2016
Ministry of Science and Technology, Government of the People's Republic of Bangladesh
4. Education Board Scholarship- 2011 & 2009 for outstanding result at the Higher Secondary School Certificate (HSC) & Secondary School Certificate (SSC) Examination

Language Proficiency Test Score:

IELTS (Academic)	Listening	Reading	Writing	Speaking
Overall 6.5	6.5	6.0	6.5	6.5

Membership of Professional Societies:

- Bangladesh Rice Research Institute Scientist`s Association (BRRISA).
- Krishibid Institution Bangladesh (KIB)
- Entomological Society of Bangladesh

References:

1. **Dr. Midori Tuda**
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