

CURRICULUM VITAE OF MD. SHAHIDUL ISLAM KHAN

B. Sc. Ag. (Hons.), MS (Entomology), MS (Biotechnology)
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BIOGRAPHY

Md. Shahidul Islam Khan is currently working as an **Assistant Professor** in the Dept. of Entomology at Sher-e-Bangla Agricultural University, Dhaka, Bangladesh since December 2020. He has an intense research interest in Integrated Pest Management (IPM), Biological control, Insect Ecology, Pollinator foraging behaviour, Host Plant Resistance, Pesticide Remediation, Pesticide and soil microbe's interactions, Pesticide residue analysis and Insect Biotechnology. He completed extensive training in biotechnology and acquired molecular biology understanding. He also served as a research assistant for senior lecturers on several projects during his graduation year.

ACADEMIC QUALIFICATIONS

- 1. Master of Science (MS) in Entomology (2022), CGPA: 4.00 out of 4.00, Position: 1st,** Department of Entomology, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
Thesis Title: Evaluation of different doses of some promising insecticides against major insect pests of okra and their effect on natural enemies.
Major Course Studied: Insect Physiology, Insect Morphology, Insect Taxonomy, Biological Control and Insect Ecology.
- 2. Master of Science (MS) in Biotechnology (2017), CGPA: 3.95 out of 4.00, Position: 1st,** Department of Biotechnology, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
Thesis Title: *In vitro* Plantlet Regeneration of Chrysanthemum (*Chrysanthemum morifolium*).
Major Course Studied: Recombinant DNA technology: principles and methods, Cellular and Molecular Biology, Genetic Engineering and Transgenics, Plant Regeneration and Tissue culture, Molecular Markers and Molecular Breeding.
- 3. Bachelor of Science in Agriculture (Hons.) (2014), CGPA: 3.95 out of 4.00, Position: 2nd,** Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh. Achieved **Dean's Award** for outstanding academic performance.
Major Course Studied: Biotechnology, Entomology, Agronomy, Biochemistry, Horticulture, Soil science and Plant Pathology.
- 4. Higher Secondary Certificate (HSC) (2009), GPA: 5.00 out of 5.00,** Government Science College, Dhaka, Bangladesh.
- 5. Secondary School Certificate (SSC) (2007), GPA: 5.00 out of 5.00,** Hazi Abid Ali Hilful Fuzul Adarsha High School, Cumilla, Bangladesh.

PROFESSIONAL EXPERIENCE

- **Assistant Professor (27 December 2020 to Present)**, Department of Entomology, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
- **Lecturer (27 December, 2018 to 26 December 2020)**, Department of Entomology, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

RESEARCH SKILLS AND EXPERIENCES

- Biology study of insect
- Biological control
- Morphometric identification of insect
- Laboratory trial for insect pest management
- Field experiment for invasive pest management
- Field application of Integrated pest Management (IPM) tools
- Tissue culture and Molecular Biology

RESEARCH CONDUCTING EXPERIENCE

MS THESIS

- Evaluation of different doses of some promising insecticides against major insect pests of okra and their effect on natural enemies.
- *In vitro* Plantlet Regeneration of Chrysanthemum (*Chrysanthemum morifolium*).

FUNDED RESEARCH PROJECT

- **Principal Investigator of Research and Development (R&D) project (2020-2021):** “Evaluation of the effectiveness of some biopesticides and chemical pesticides on the management of tomato fruit borer (*Helicoverpa armigera* Hubner) in tomato”. Funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
- **Principal Investigator of Research and Development (R&D) project (2021-2022):** “Efficacy of some integrated pest management tools against okra shoot and fruit borer (*Earias vittella* Fab.) in okra”. Funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
- **Principal Investigator of Research and Development (R&D) project (2022-2023):** “The field efficacy of selected synthetic and botanical insecticides for management of invasive Fall Armyworm (*Spodoptera frugiperda*) in Maize”. Funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
- **Principal Investigator of Research and Development (R&D) project (2023-2024):** “Dose effect of some promising insecticides against major sucking insect pests of okra and their effect on natural enemy incidence”. Funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
- **Research assistant of SAURES project (2020-2021):** “Collection, Identification, and Preservation of Insects for Strengthening the Research Capability of the SAU Insects Museum”. Funded by the Sher-e-Bangla Agricultural University Research System (SAURES).
- **Research assistant of SAURES project (2022-2023):** “Morphometric Study on Ladybird Beetles Collected from Different Intensive Vegetable Growing Areas”. Funded by the Sher-e-Bangla Agricultural University Research System (SAURES).

- **Research assistant of SAURES project (2023-2024):** “Documentation, Collection, and Liquid Preservation of Soft-Bodied Insect Pests with Host Plants Collected from Infested Field Crops”. Funded by the Sher-e-Bangla Agricultural University Research System (SAURES).
- **Research Assistant of Special Research Grants Project (Inter-disciplinary Group) (2022–2023):** “Incidence of phytophagous beetles and caterpillars on bottle gourd and their potential management”. Funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh. (Project ID: SRG-221329).
- **Associate Investigator of Special Research Grants Project (Inter-disciplinary group) (2023-2024):** “Potential management of epilachna beetle & shoot and fruit borer attacking brinjal”. Funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh. (Project No.: 39.00.0000.009.99.023.23-363/BS)

PUBLISHED RESEARCH ARTICLES

1. **Khan, M. S. I.,** Rahman, M. M., Hossain, M. S., Emam Hossain , M., & Rimi, T. A. (2024). Efficacy of Insecticides Against Major Sucking Insect Pests of Okra and Their Effect on Natural Enemies. *Indian Journal of Entomology*, 1–4. <https://doi.org/10.55446/IJE.2024.1328>
2. Begum, M. S., Rahman, M. M., Hossain, M. S., Yasmin, S., Amin, R., **Khan, M. S. I.,** & Hossain, M. E. (2023). Efficacy of Bio-Rational Insecticides in Controlling Thrips in Summer Country Bean. *Annual Research & Review in Biology*, 38(10), 49-57. <https://doi.org/10.9734/arrb/2023/v38i1030612>
3. Amin, R., **Khan, M. S. I.,** Hossain, M.E. and Sultana, R. (2023). Study on Biology of Mango Mealybug and Their Chemical Control in Laboratory. *Int. J. Bus. Soc. Sci. Res.* 11(2): 27–31. <http://doi.org/10.55706/ijbssr11206>
4. **Khan, M. S. I.,** Hossain, M. E., Amin, R., & Akter, S. (2023). Efficacy of Some Integrated Pest Management (IPM) Techniques against Okra Shoot and Fruit Borer (*Earias vittella* Fab.). *Asian Journal of Research in Zoology*, 6(2), 26-32. <https://doi.org/10.9734/ajriz/2023/v6i2109>
5. **Khan, M. S. I.,** Hossain, M. E., and Farhana, F. (2023). Management of tomato fruit borer (*Helicoverpa armigera* Hubner) through bio and chemical pesticides. *Int. J. Bus. Soc. Sci. Res.* 11(1): 31–36. <http://doi.org/10.55706/ijbssr11107>
6. Hossain, M. E., Rahman, M. M., Akter, S., Akhter, N. and **Khan, M. S. I.** (2020). Eco friendly management of major Lepidopteran insect pests of summer cabbage by six commonly used botanicals. *Journal of Bioscience and Agriculture Research*, 25(01), 2060-2068. <https://doi.org/10.18801/jbar.250120.252>
7. Hossain, M. E., Rahman, M. M., Akter, S., Akhter, N., & **Khan, M. S. I.** (2020). Botanicals Affect the Incidence of Lepidopteran Insect Pests on Summer Cabbage. *Int. J. Bus. Soc. Sci. Res.* 8(3), 15-19. <http://www.ijbssr.com/currentissueview/14013363>
8. **Khan, M. S. I.,** Khatun, F., Afrin, S., Munsur, M. A. Z. A. and Hoque, M. E. (2020). Combine effect of BA and IAA on shoot and root induction potentiality in chrysanthemum (*Chrysanthemum morifolium*). *Journal of Bioscience and Agriculture Research*, 24(01), 2006-2011. <https://doi.org/10.18801/jbar.240120.245>

9. **Khan, M. S. I.**, Khatun, F., Afrin, S., & Hoque, M. (2020). Callus induction and plantlet regeneration in Chrysanthemum. *Int. J. Bus. Soc. Sci. Res*, 8(1), 06-10. <http://www.ijbssr.com/currentissueview/14013344>
10. Afrin, S., Munsur, M. A. Z. A., **Khan, M. S. I.**, Khatun, F. and Hoque, M. E. (2020). Effect of phytohormone on shoot generation potentiality in rucola. *Journal of Bioscience and Agriculture Research*, 24(01), 1990-1998. <https://doi.org/10.18801/jbar.240120.243>
11. Mumutaj, Hasina, Md. Abdul Latif, M. R. Ali, **Md. Shahidul Islam Khan**, Ruhul Amin, R. S. Ruku, Md. Emam Hossain, and Masum Sharif Sazidy. 2024. "Thrips (Megalurothrips Usitatus Bagnall) Infestation in Mung Bean: Integrated Control With Chemical and Neem-Based Insecticides". *Annual Research & Review in Biology* 39 (12):1-10. <https://doi.org/10.9734/arrb/2024/v39i122164>.
12. Talha, M.A., Rahman, M.M., Amin, R., Hossain, M.E. and **Khan, M.S.I.** 2024. Sustainable management of *Spodoptera litura* (Fab.) in tropical sugar beet. *Journal of Biopesticides*, 17(2):92-97. DOI: 10.57182/jbiopestic.17.2.92-97
13. Talha, M. A., Rahman, M. M., Amin, R., Hossain, M. E., & **Khan, M. S. I.** (2024). Field evaluation of insecticides against *Spodoptera litura* (Fab.) in tropical sugar beet. *Journal of Entomological Research*, 48(4), 492-496.
14. **Khan, M. S. I.**, Rahman, M. M., Hossain, M. S., Hossain, M. E., Amin, R., Akter, M. S., Akter, M. M. (2024). Dose Response of Chemical Insecticides in Mitigating Shoot and Fruit Borer (*Earias vittella* Fab.) Infestation in Okra. *Pakistan Journal of Agricultural Research*. (**Submitted and under review**)
15. Yousuf, M., **Khan, M. S. I.**, Hossain, M. E. and Latif, M. A. (2024). Biophysical and biochemical characterization of some sugarcane varieties and their relationship with sugarcane stem borer (*Chilo tumidicostalis* Hampson) infestation. *Journal of Crop Health*. (**Submitted and under review**)
16. Talha, M. A., Rahman, M. M., Ali, M. R., Amin, R., Hossain, M. E., **Khan, M. S. I.** and Hossain, M. E. (2024). Enhancing sugar beet production in Bangladesh utilizing safe IPM techniques against *Spodoptera litura* (Fab.). *Pakistan Journal of Agricultural Research*. (**Submitted**)

ACADEMIC AND OTHER ACHIEVEMENTS

- **Dean's Award** (2019) for outstanding academic excellence (Level 1, 2, 3 & 4) in persuasion of B.Sc. Ag. (Hons.) degree programme, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- **National Science and Technology (NST) Fellowship** (2016-17), To carry out Research for obtaining Master of Science (MS) in Biotechnology degree funded by Ministry of Science and Technology, Government of the People's Republic of Bangladesh.
- **Agricultural Extension Officer (AEO)** recommendation from Bangladesh Public Service Commission (BPSC) at 38th BCS (Bangladesh Civil Service).

TRAINING AND WORKSHOP RECEIVED

- Workshop on "**Keyword sequence Importance (KSI) Technique: A Potential Technique for Quality Research Articles**" 22 September 2022, Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.

- Training on “**Understanding Research Metrics and Finding Relevant Journals to Read and Publish**”, 26 June 2022, Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- Training on “**Journal Selection and Paper Submission**”, 27 June 2022, Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- Training on “**Research Methods and Thesis Writing**”, 28 December 2021, Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- **Advanced Training on Biotechnology**, 04-13 March, 2019, National Institute of Biotechnology (NIB), Savar, Dhaka-1349, Bangladesh.
- Training on **Pesticide Application Technology**, 18 April, 2019, Syngenta (Private Organization), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- Training on **Career Development in Teaching and Research**, 29 October 2019, Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- Workshop on **Scientific Paper Writing and Publication**, 23, July 2019, Sher-e- Bangla Agricultural University Research System (SAURES), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- Training on **Teaching Learning, Assessment and Implementation of Outcome Based Curriculum**, 27-28, July 2019, Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- Training on **Responsibilities of Teachers, Outcome Based Education and Different Rules and Regulations**, 16-17 January, 2019, Directorate of Outreach Program, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.

LANGUAGE AND TECHNICAL SKILLS

- **Language: Overall IELTS score 6.5 (L-6.5, R-6.5, S-6.5,W-6.5)** ; English (Medium of Instruction of university is English) and Bangla (Native language)
- **Analytical ability:** MS office, MS excel, Statistix10, SPSS, R-package

REFERENCES

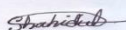
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I solemnly affirm that the above statements are true.



Md. Shahidul Islam Khan
February 2025