

DR. SHORMIN CHOUDHURY

Professor

Sher-e-Bangla Agricultural University

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ACADEMIC CREDENTIALS

Degree/ Exam	Major	Year of Passing	University/Institution	Result
Doctor of Philosophy	Agriculture	2019	University of Tasmania, Australia	Passed
Master of Science (Thesis based)	Horticulture	2007 (Exam held in 2008)	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	CGPA 4.0 (out of 4.0)
Bachelor of Science	Agriculture	2003 (Exam held in 2005)	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	First Class

SCHOLARSHIP AND AWARDS

1. Conference and Research Travel Scheme, Graduate Research Office, University of Tasmania, 2018.
2. SET Tasmania Scholarship - Standard APA Stipend - Full-Time: June 2015 till Dec 2019.
3. Awarded a research project from The University Grants Commission (UGC) of Bangladesh in the year 2012-2013.
4. Master of Science Merit Scholarship from Sher-e-Bangla Agricultural University of Dhaka, Bangladesh, 2006-2007
5. Bachelor of Science Merit Scholarship, Faculty of Agriculture, Sher-e-Bangla Agricultural University of Dhaka, Bangladesh 2000-2003

WORK EXPERIENCE

University Teaching (From 23rd February 2010 to till date): Teaching as a lecture from 23rd February 2010 to 22nd February 2012, as an Assistant Professor from 23rd February 2012 to 22nd February 2019, as an Associate Professor from 23rd February 2019 to 22nd February 2023 and as an Professor from 23rd February 2023 to till date in the Department of Horticulture, Sher-e-Bangla Agricultural University (SAU), Dhaka, Bangladesh.

TEACHING AND GRADUATE ADVISING

COURSES TAUGHT

HORT 151& HORT 152: Introduction of Floriculture & Landscaping

HORT 201 & HORT 202: Vegetable Production

HORT 453 & HORT 454: Fruit Production & Orchard Management

HORT 503: Advanced Floriculture & Landscaping

REVIEWER

- Journal of Experimental Agriculture International
- Asian Journal of Soil Science and Plant Nutrition
- Acta Agriculturae Scandinavica
- Journal of Global Ecology and Environment

RESEARCH EXPERIENCE

- 1 Principal investigator of research project on “Effect of Pre-harvest Treatment of Chitosan and Gibberellic Acid on Fruit Yield and Quality of Banana (*Musa paradisiaca* L.)”, 2024-2025, support by Sher-e-Bangla Agricultural University Research System (SAURES), Dhaka, Bangladesh.
- 2 Principal investigator of research project on “Morpho-physiological, biochemical and antioxidant responses of tolerant and susceptible tomato genotypes under salinity stress”, **2023-24**, supported by The University Grants Commission (UGC) of Bangladesh.
- 3 Principal investigator of research project on “Effect of selenium on physiological and biochemical attributes of tomato under drought stress”, **2023-2024**, support by Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
- 4 Principal investigator of research project on “Effect of waterlogging on growth, yield and biochemical traits of brinjal”, **2023-2024**, support by Sher-e-Bangla Agricultural University Research System (SAURES), Dhaka, Bangladesh
- 5 Principal investigator of research project on “Effect of pre-harvest treatment of paclobutrazol and bagging on yield and quality of banana”, **2022-2023**, support by Sher-e-Bangla Agricultural University Research System (SAURES), Dhaka, Bangladesh
- 6 Principal investigator of research project on “Effect of plant growth regulators and micronutrients on growth, yield and quality of brinjal”, **2022-2023**, support by Ministry of Science and Technology, Government of the People’s Republic of Bangladesh, Bangladesh

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- 7 Principal investigator of research project on “Effects of biochar and chitosan on physiological, nutritional and biochemical characters of water-stressed tomato plants”, **2021-2022**, support by Ministry of Science and Technology, Government of the People’s Republic of Bangladesh, Bangladesh
 - 8 Research Associates of research project on ‘Development of Protective culture Technology for safe and quality vegetable and fruit production’, **October 2019 to December 2022**, supported by National agricultural technology program-Phase II, Ministry of Agriculture, Bangladesh.
 - 9 Principal investigator of research project on “Effects of biochar and chitosan on physiological, nutritional and biochemical characters of water-stressed tomato plants”, **2021-2022**, support by Ministry of Science and Technology, Government of the People’s Republic of Bangladesh, Bangladesh
 - 10 Principal investigator of research project on “Studies on resistance mechanisms and screening methodology of tomato genotypes under salinity stress” **2020-2023**, support by BANBEIS, Ministry of Education, Bangladesh.
 - 11 Co-investigator of research project on “Safe and low cost Gur production from Date palm juice in Bangladesh”, **2020-2023**, support by Bangladesh Academy Sciences (BAS), BAS-USDA Endowment Program (4th Phase).
 - 12 Principal investigator of research project on “Priming Effects on Seed Germination and Field Performance of Onion in Summer Sowing”, **2020-2021**, support by Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
 - 13 Principal investigator of research project on “Drought stress tolerance in tomato Plants: physiological and biochemical mechanisms”, **2019-2020**, support by Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
 - 14 Principal investigator of research project on “Screening for salinity tolerance in tomato genotypes at an early plant growth stage”, **2019-2020**, support by Sher-e-Bangla Agricultural University Research System (SAURES), Dhaka, Bangladesh
 - 15 **2015-2019** Student Helper of the research project, “Effective control of barley yellow dwarf virus (BYDV) in wheat and barley” funded by Grains Research & Development Corporation (GRDC), Australia.
 - 16 Research Associates of research project on “Development of economically feasible postharvest treatments and packaging for fruits and vegetables to ensure food security”

2013-2014, supported by ministry of Science and Technology, Govt. of Bangladesh.

- 17 Principal investigator of research project on “Delphinium a new cut flower: Technology Transfers for the Commercial Production in Bangladesh”, **2012-13**, supported by The University Grants Commission (UGC) of Bangladesh.
- 18 Research Associates of research project on “Home garden production system on conserving biodiversity and food security with respect to climate change” **2012-2013**, supported by ministry of Science and Technology, Govt. of Bangladesh.
- 19 Research Associates of research project on “Adaptations of horticultural crops to climate change with particular reference to water stress” **2012-2013**, supported by ministry of Planning, Govt. of Bangladesh.

RESEARCH SUPERVISOR

- Supervised of MS students: 51

SKILLNESS IN TECHNIQUES

- **Detection of the transgene by PCR**
 - Isolation of genomic plant DNA (Qiagen plant DNA isolation kit) and then PCR
 - Agarose gel electrophoresis (genomic DNA and amplicons), evaluation of the gel and restriction digest
 - Polyacrylamide gel electrophoresis (restriction fragments of the PCR products).
- **Map QTL analysis**
- **Measurement of enzyme activities**
- **Nutrient analysis**
- **Fruit quality measurements**

FUTURE GOAL

To be in such a position where the line of work is solely relevant the research with plant science and able to implement the learning in realistic fields.

PUBLICATIONS

1. Araf, T., Kayes, A., Islam, N. and **Choudhury, S.** (2025). Effect of paclobutrazol application and bunch covering on productivity and quality of banana. *Journal of Horticulture and Postharvest Research*, 8(3):365-378.
2. **Choudhury, S.**, Kayes, A., Rahman, N., Ahmmad, S., Islam, N. and Shawon, T. A. (2025). Effect of Waterlogging at Different Growth Stages on Growth, Yield and Biochemical Characteristics of Brinjal (*Solanum melongena* L.). *European Journal of Applied Sciences* 13(1): 01-11.

3. Khatun, M.S., Islam, N. and **Choudhury, S.** (2024). Effect of pretreatment and different drying methods on the antioxidant activities and physico-chemical properties of bitter gourd powder. *Journal of Applied Horticulture* 26(4): 429-434.
4. Jahan, N., Solaiman, A.H.M., Islam, N., Hossain, F. and **Choudhury, S.** (2024). Influence of Mulching and Fertilizers on Growth, Yield and Quality of Sugar Beet: Influence of Mulching and Fertilizer Management of Sugar Beet. *Bangladesh Journal of Agriculture* 49(2):53-69.
5. Md. Rezwon Sarker, Fatima Farhana, Banalata Das, Md. Mofizur Rahman, Chaity Dey Puja, **Shormin Choudhury** (2024). Impact of salicylic acid foliar spray on tomato growth, yield and quality under drought conditions. *International Journal of Biosciences* 25(6):230-244.
6. Jarin, T., Islam, M.N., **Choudhury, S.**, Islam, M.R., Raen, R., Islam, R. and Mustaki, S. (2024). Effect of essential oils as vitamin C preservatives and chia seed (*Salvia hispanica*) in the fortification of pineapple jam. *Heliyon*, 10 (23): e40711
7. Kayes, A., Islam, N. and **Choudhury, S.** (2024). Influence of biochar and chitosan on productivity of tomato under water-stress conditions. *International Journal of Biosciences* 25 (4): 246-253.
8. Mustaki, S., Islam, N. and **Choudhury, S.** (2024). Effect of Planting Materials and Sources of Nutrients on Growth, Yield and Quality of Banana. *Acta Scientific Agriculture* 8(6): 43-51.
9. Kayes, A., Araf, T., Mustaki, S., Islam, N. and **Choudhury, S.** (2024). Effects of biochar and chitosan on morpho-physiological, biochemical and yield traits of water-stressed tomato plants. *International Journal of Horticulture, Agriculture and Food Science*, 8(2): 01-09.
10. Afrin, S., Islam, N., Mustaki, S., Araf, T. and **Choudhury, S.** (2024). Impact of Micronutrients and Plant Growth Regulators on Brinjal (*Solanum melongena* L.) Growth, Yield and Quality. *Asian Journal of Soil Science and Plant Nutrition* 10(2): 72-79.
11. Afifa, R. I., Islam, N. and **Choudhury, S.** (2024). Effects of Priming on Onion Seed Germination and Field Performance during Summer Sowing. *Journal of Scientific Research and Reports* 30(4): 252-258.
12. Roy, S., Islam, M.N., Hossain, M.J. and **Choudhury, S.** (2024). Effect of biopreservatives and packaging on shelf life and quality of tomato. *International Journal of Postharvest Technology and Innovation* 9(1):20-34.
13. Islam, N., Mustaki, S., Hoq, A. B. M. and **Choudhury, S.** (2024). Nutritional and biochemical attributes of present juice and Gur produced from date palm trees. *International Journal of Horticulture and Food Science* 6(1): 101-107
14. Khatun, M., Islam, N. and **Choudhury, S.** (2023). Impact of Seed Priming and Growing Media on Germination and Seedling Growth of Bitter Gourd. *Annual Research & Review in Biology* 51-60.
15. **Choudhury, S.**, Ali, S., Sarker, M. R. and Islam, N. (2023). Salinity tolerance in tomato genotypes at an early plant growth stage: Morphological and physiological responses. *Trends in Horticulture* 6(2):

3490.

16. Hossain, F., Islam, N., Ali, S., Kayes, A. and **Choudhury, S.** (2023). GA3 and growing medium influence papaya seed germination and seedling growth. *Trends in Horticulture* 6(2):3263.
17. Hoq, A. B. M., Islam, N., Bagum, T. and Choudhury, S. (2023). Present Practices and Constraints of Juice and Gur Production from Date Palm Trees in Bangladesh. *Asian Journal of Agricultural Extension, Economics & Sociology* 41(10): 517-524.
18. Ali, S., Islam, N. and Choudhury, S. (2023). Influence of Gibberellic Acid and Mulch Materials on Yield and Biochemical Attributes of Strawberry (*Fragaria× ananassa*) cv. Festival. *AgroEnvironmental Sustainability* 1(2): 162-171.
19. Hoq, A. B. M., Islam, N. and Choudhury, S. (2023). Effect of Different Packaging Materials on the Preservation of Juice and Gur of Date Palm. *Food Science & Nutrition Technology* 8(3):000305
20. Ali, S., Islam, N. and **Choudhury, S.** (2023). Productivity of strawberry as influenced by mulch materials and gibberellin under net house condition. *Archives of Agriculture and Environmental Science* 8(2):144-149.
21. **Choudhury, S.**, Islam, N., Shaon, A. R. and Hossain, J. (2023) Evaluation of different high tunnel protection methods for quality banana production in Bangladesh. *Journal of Plant Science and Crop Protection* 6(1): 102
22. Islam, N., Hossain, I. and **Choudhury, S.** (2023). Impact of Different Shed Houses and Growing Media on Growth, Yield and Quality of Strawberry. *Journal of Agricultural Production*, 4(1): 30-38.
23. **Choudhury, S.**, Islam, N., Mustaki, S., Uddain, J., Azad, M.O.K., Choi, K.Y. & Naznin, M.T. (2022). Evaluation of the Different Low-Tech Protective Cultivation Approaches to Improve Yield and Phytochemical Accumulation of Papaya (*Carica papaya* L.) in Bangladesh. *Horticulturae*, 8(3): 210.
24. Islam, N., Zaman, S., Shaon, A.R. and **Choudhury, S.** (2022). Effect of different growing environments on growth, yield and quality attributes of strawberry. *Journal of Applied Horticulture*, 23(2): 178-183.
25. Baby, T., Das, B., Ara, A., **Choudhury, S.** and Uddain, J. (2021). Growth and Yield of Squash Influenced by Leaf Pruning and Gibberellic Acid (GA3). *International Journal of Plant & Soil Science*, 33: 27-39.
26. Akter, M.S., Sarkar, M.R., **Choudhury, S.**, Islam, N. and Uddain, J. (2020). Effect of postharvest treatments on shelf life and quality of litchi stored at ambient temperature. *International Journal of Postharvest Technology & Innovation*, 7(4): 319-334.
27. Sarker, M.R., **Choudhury, S.**, Islam, N., Zeb, T., Zeb, B.S. and Mahmood, Q. (2020). The effects of climatic change mediated water stress on growth and yield of tomato. *Central Asian Journal of Environmental Science & Technology Innovation* 1: 91-100.
28. **Choudhury S.**, Larkin, P., Xu, R., Hayden, M., Forrest, K., Meinke, H., Hu, H., Zhou, M. and Fan, Y.

- (2019). Genome wide association study reveals novel genes for barley yellow dwarf virus resistance in wheat. *BMC Genomics*, 20: 891.
29. **Choudhury S**, Hu, H., Fan, Y., Larkin, P., Hayden, M., Forrest, K., Birchall, C., Meinke, H., Xu, R., Zhu, J. and Zhou, M. (2019) Identification of new QTL contributing to barley yellow dwarf virus resistance in wheat. *Plant Disease*, 103:2798-2803.
 30. Hu, H., **Choudhury, S.**, Shabla, S., Gupta, S. and Zhou, M. (2019) Genomic regions on chromosome 5H containing a novel QTL conferring barley yellow dwarf virus-PAV (BYDV-PAV) tolerance in barley. *Scientific Reports*, 9:11298.
 31. Hu, H., Ahmed, I., **Choudhury, S.**, Fan, Y., Shabala, S., Zhang, G., Harrison, M., Meinke, H. and Zhou, M. (2019). Wild barley shows a wider diversity in genes regulating HD compared with cultivated barley. *Euphytica*, 215: 75.
 32. **Choudhury, S.**, Larkin, P., Meinke, H., Hasanuzzaman, M., Johnson, P. and Zhou, M. (2019). Barley yellow dwarf virus infection affects physiology, morphology, grain yield and flour pasting properties of wheat. *Crop Pasture Science*, 70: 16-25.
 33. **Choudhury, S.**, Al-Shammari, D., Hu, H., Meinke, H., Westmore, G., Birchall, C., Larkin, P. and Zhou, M. (2018) A screening method to detect BYDV-PAV resistance in cereals under glasshouse conditions. *Plant Pathology*, 67: 1987-1996.
 34. **Choudhury, S.**, Hu, H., Larkin, P., Meinke, H., Shabala, S., Ahmed, I. and Zhou, M. (2018). Agronomical, biochemical and histological response of resistant and susceptible wheat and barley under BYDV stress. *Peer J*, 6: e4833.
 35. **Choudhury, S.**, Hu, H., Meinke, M., Shabla, S., Westmore, G., Larkin, P. and Zhou, M. (2017). Barley yellow dwarf viruses: infection mechanisms and breeding strategies. *Euphytica*, 213:168.
 36. Mony, F.T.Z., Ali, M.S., Islam, N., **Choudhury, S.** and Hossain, M.S. (2017). Effect of salicylic acid and varieties on incidence of aphid and yield of Mustard. *Journal of Multidisciplinary Engineering Science Studied*, 3:1331-1340.
 37. Sarkar MD, Islam N, **Choudhury S** and Rahman M (2017). Effect of exogenous application of salicylic acid on growth and yield of tomato. *Journal of Bangladesh Horticulture*, 3: 9-14
 38. **Choudhury, S.**, Islam, N., Sarkar, M.D. and. Ali, M.A (2013). Growth and yield of summer tomato as influenced by plant growth regulators. *International Journal of Sustainable Agriculture*, 5: 25-28
 39. Sarkar, M.D., **Choudhury, S.**, Islam, N. and Islam, M.N. (2012). Morphometric characterization of coconut germplasm conserved. *International Journal of Sustainable Agriculture*, 4: 52-56.
 40. Hossian, M.J., Amin, M.R., **Choudhury, S.** and Uddain, J. (2011). Effect of corm size and different doses of phosphorous on the growth, corm and cormel development of gladiolus. *Libyan Agriculture Research Center Journal International*, 2(1):09-14.
 41. **Choudhury, S.**, Amin, M.R., Uddin, A.K.M. and Uddain, J. (2010). Influence of Bulb Size and GA3

on Bulb and Bulblets Production of Tuberose. *International Journal of Bio-resource and Stress Management*, 1(3):180-183.

42. **Choudhury, S.,** Amin, M.R. and Uddin, A.K.M. (2009). Effect of Bulb Size and GA₃ on growth and flowering of Tuberose. *Bangladesh Journal of Progressive Science and Technology*, 72: 363-366.

CONFERENCES ATTENDED

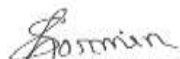
1. Choudhury S, Meinke H and Zhou M (Poster presentation) “BYDV-PAV induces physiological and biochemical changes in susceptible and resistant barley varieties”. 18th Australian Barley Technical Symposium, Hobart, Tasmania, Australia, 3-6 September 2017
2. Choudhury S, Meinke H and Zhou M (Poster presentation) “A reliable glasshouse screening technique to detect BYDV-PAV disease resistance in cereal crops at early and late growth stage”. 11th International Congress of Plant Pathology (ICPP), Boston, USA, 29 July-3 august, 2018

OTHERS

1. Attended and actively participated in workshop on 'Priority List Validation of Horticulture Crops for Export' organized by Food and Agricultural organization (FAO) held in BARC, Bangladesh in 3 October 2020.
2. Attended and actively participated in workshop on 'Green control of fruit pests for Road and Belt country' organized by Institute of Pomology, Chinese Academy of Agricultural Sciences (IPCAAS) held in China in 17-18 Nov 2020.

PERSONAL IFORMATION

Date of Birth : December 19, 1982
Nationality : Bangladeshi
Marital status : Married



(Dr Shormin Choudhury)

29 April 2025