

## Curriculum Vitae

### **Tasnim Farha Bhuiyan**

Department of Agricultural Botany  
Sher-e-Bangla Agricultural University  
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<http://www.sau.edu.bd/teacher/64>

### **PROFESSIONAL PREPARATION**

#### **MS Program**

Degree name: **Master of Science in Agricultural Botany**  
Dissertation: Mitigation of Drought Stress in Rapeseed by Exogenous Application of Osmolytes  
Passing year: January-June, 2016  
Institute: Sher-e-Bangla Agricultural  
University, Dhaka, Bangladesh  
Result: CGPA 3.96 out of 4.00

#### **Bachelor Program**

Degree name: **Bachelor of Science in Agriculture (Honours)**  
Passing year: 2013 (Exam Held in 2014)  
Institute: Sher-e-Bangla Agricultural University  
Result: CGPA 3.76 out of 4.00

### **Research Interests**

- Plant Ecology and Ecosystem processes
- Plant Physiology and Plant Stress Physiology
- Plant Science

### **EMPLOYMENT RECORD**

<b>Name and address of organization</b>	<b>Period of Employment</b>	<b>Position</b>	<b>Type of work</b>
Department of Agricultural Botany, Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh.	27 December 2018 to Present	Lecturer	Teaching and Research

### **PUBLICATIONS**

#### **A. Riview Article**

1. Hasanuzzaman, M., Bhuyan, M.H.M., Parvin, K., **Bhuiyan, T.F.**, Anee, T.I., Nahar, K., Hossen, M., Zulfiqar, F., Alam, M. and Fujita, M., 2020. Regulation of ROS Metabolism in Plants under Environmental Stress: A Review of Recent Experimental Evidence. *International Journal of Molecular Sciences*, 21(22), p.8695.

## B. Refereed Journal Article

1. **Bhuiyan, T.F.**, Ahamed, K.U., Nahar, K., Al Mahmud, J., Bhuyan, M.B., Anee, T.I., Fujita, M. and Hasanuzzaman, M., 2019. Mitigation of PEG-induced drought stress in rapeseed (*Brassica rapa* L.) by exogenous application of osmolytes. *Biocatalysis and Agricultural Biotechnology*, p.101197.
2. Anee, T.I., Nahar, K., Rahman, A., Mahmud, J.A., **Bhuiyan, T.F.**, Alam, M.U., Fujita, M. and Hasanuzzaman, M., 2019. Oxidative damage and antioxidant defense in *Sesamum indicum* after different waterlogging durations. *Plants*, 8(7): 196.
3. Bhuyan, M.H.M., Hasanuzzaman, M., Mahmud, J.A., Hossain, M., **Bhuiyan, T.F.** and Fujita, M., 2019. Unraveling Morphophysiological and Biochemical Responses of *Triticum aestivum* L. to Extreme pH: Coordinated Actions of Antioxidant Defense and Glyoxalase Systems. *Plants*, 8(1), p.24.
4. Hasanuzzaman M, Masud AAC, **Bhuiyan TF**, Anee TI (2019) Legumes for Soil Fertility Management and Sustainable Agriculture SATSA Mukhapatra - Annual Technical Issue 29 ISSN 0971-975X

## C. Book & Booklets

1. Hasanuzzaman, M., Anee, **T.I.**, **Bhuiyan, T.F.**, Nahar, K. and Fujita, M., 2019. Emerging Role of Osmolytes in Enhancing Abiotic Stress Tolerance in Rice. In *Advances in Rice Research for Abiotic Stress Tolerance* (pp. 677-708). Woodhead Publishing.
2. Hasanuzzaman, M., Nahar, K., Rahman, A., Anee, T. I., Alam, M. U., **Bhuiyan, T. F.**, Oku, H. and Fujita, M. (2017). Approaches of enhancing salt stress tolerance in wheat. In: Wanyera, R. And Owuoch, J (eds) *Wheat improvement, management and utilization*. InTech, doi: 10.5772/63694.
3. Hasanuzzaman, M., Nahar, K., **Bhuiyan, T. F.**, Anee, T. I., Inafuku, M., Oku, H. and Fujita, M. (2017). Salicylic acid: An all-rounder in regulating abiotic stress responses in plants. In: El-Esawi, M. (ed) *Phytohormones and their signaling mechanisms in plant development*, InTech, doi: 10.5772/intechopen.68213.
4. Bhuyan, M.B., Hasanuzzaman, M., Nahar, K., Al Mahmud, J., Parvin, K., **Bhuiyan, T.F.** and Fujita, M., 2019. *Plants Behavior Under Soil Acidity Stress: Insight into Morphophysiological, Biochemical, and Molecular Responses*. In *Plant Abiotic Stress Tolerance* (pp. 35-82). Springer, Cham.
5. Parvin, K., Nahar, K., **Bhuiyan, T.F.** and Hasanuzzaman, M., 2020. Fabaceae Plants Response and Tolerance to High Temperature Stress. In *The Plant Family Fabaceae* (pp. 337-371). Springer, Singapore.
6. Hasanuzzaman, M., Mohsin, S.M., Bhuyan, M.B., **Bhuiyan, T.F.**, Anee, T.I., Masud, A.A.C. and Nahar, K., 2020. Phytotoxicity, environmental and health hazards of herbicides: challenges and ways forward. In *Agrochemicals Detection, Treatment and Remediation* (pp. 55-99). Butterworth-Heinemann.

## D. Abstracts:

1. **Bhuiyan TF**, Hasanuzzaman M, Mahmud JA, Nahar K, Rahman A, Hossain MS, Anee TI, Alam MU, Fujita M (2016) Mitigation of drought stress in rapeseed (*Brassicacampestris* L.) by exogenous application of proline, glycine betaine and trehalose. *Proceedings of PhytogeneSumposium VIII*. p. 29
2. Anee TI, Hasanuzzaman M, Nahar K, Rahman A, Mahmud JA, Hossain MS, **Bhuiyan TF**, Alam MU, Fujita M (2016) Time-dependent variations in oxidative stress markers, proline and non-enzymatic antioxidants in sesame (*Sesamum indicum* L.) grown under waterlogging condition. *Proceedings of Phytogene Sumposium VIII*. p. 26

## SCHOLARSHIPS AND AWARDS

- 2019 : Dean's award from Faculty of Agriculture, Sher-e- Bangla Agricultural University, Dhaka, Bangladesh, for outstanding result in Bachelor of Science in Agriculture (Honours).
- 2015- 2016 : NST (National Science and Technology) Fellowship, Ministry of Science and Technology, Government of the People's Republic of Bangladesh for MS research work.

2016-2017 : Special Research Student Fellowship funded by Japan Student Services Organization (JASSO) in Laboratory of Plant Stress Responses. Department of Applied Biological Sciences, Faculty of Agriculture, Kagawa University, Japan

### RESEARCH EXPERIENCE: 6 YEAR'S

- 20014-2016 : MS Thesis work on “Mitigation of drought stress in rapeseed (*Brassica campestris* L.) by exogenous application of osmolytes.”
- 2016-2017 : As Special Research StudentFunded by Japan Student Services Organization (JASSO) at Laboratory of Plant Stress Responses. Department of Applied Biological Sciences, Faculty of Agriculture, Kagawa University, Japan
- 2019-2020 : Research and Development Project on “Stimulating the Growth and Physiology of Rice: Unraveling the Role of Organic Acid”.

### WORKSHOPS AND CONFERENCES ATTENDED

1. **Phytogene Symposium VIII**, Kagawa International Conference Hall, Kagawa, Japan, 17<sup>th</sup>October, 2016.
2. 5<sup>th</sup> Conference of the **Weed Science Society of Bangladesh (WSSB)** on Integrated Weed Management for Sustainable Agriculture, 16 May, 2015, Dhaka, Bangladesh

### TRAINING ATTENDED

1. **Advanced Practical Training of Plant Stress Physiology**, Laboratory of Plant Stress Responses, Kagawa University, March 1, 2016-February 28, 2017, Funded by Japan Student Services Organization (JASSO).
2. **Training on Scientific Paper Writing**, Sher-e-Bangla Agricultural University, during 20-23 December, 2015 under the project “Strengthening Crop Science Research Facilities of the Department of Agronomy” funded by Academic Innovation Fund (AIF) of University Grants Commission (UGC) under World Bank.
3. **Training on Data Analysis**, Sher-e-Bangla Agricultural University, during 29-31 December, 2015 under the project “Strengthening Crop Science Research Facilities of the Department of Agronomy” funded by Academic Innovation Fund (AIF) of University Grants Commission (UGC) under World Bank.
4. **Training on Career Development in Teaching and Research**, 29 October 2019, Institutional Quality Assurance Cell, (IQAC), Sher-e-Bangla Agricultural University, DhaKA-1207, Bangladesh

### COURSES TAUGHT

#### Undergraduate

B. Sc. Ag. (Hons.) Level:

**ABOT 104: Plant Morphology and Anatomy (Practical)**

### PROJECT EXPERIENCE

#### Position: Principle Investigator

1. Stimulating the Growth and Physiology of Rice: Unraveling the Role of Organic Acid (**on-going**)  
Funded by Science and Technology Ministry of Bangladesh.

## **BASIC SKILLS**

- Microsoft Office (Word, Excel, Power Point)
- Data analysis through MSTAT-C, Web browsing

## **LANGUAGE PROFICIENCY**

### **IELTS Test Report Score: Candidate number: 009508**

Listening: **8.5** Reading: **6.0** Writing: **6.5** Speaking: **7.5** Overall Band Score: **7.0**

- Bengali (Native language)
- English (Fluent in reading, writing and speaking)
- Japanese (Basic)

I have completed four years B.Sc.Ag. (Hons.) and two years MS in Agricultural Botany from Sher-e-Bangla Agricultural University where English is the official language and the study have been instructed and examined in English.

## **PROFESSIONAL INVOLVEMENT:**

- Bangladesh Society of Agronomy (BSA)
- Bangladesh Association of Biotechnology and Genetic Engineering (BABGE)
- Agriculturists' Institution of Bangladesh (KIB)

## **ACADEMIC AND PROFESSIONAL REFEREES**

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