

PERSONAL INFORMATION

Abdul Awal Chowdhury Masud

PhD Scholar (Environment and Bioenergy)



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Sex Male | Date of birth 05/10/1991 | Nationality Bangladesh

PERSONAL STATEMENT

I specialize in plant protein interaction, particularly in plant root nitrate metabolism. My research focuses on unravelling the molecular mechanisms underlying nitrogen uptake and utilization in plants, with implications for improving crop productivity and sustainability.

WORK EXPERIENCE

Dec 26, 2020-Present

Assistant Professor, Department of Agronomy

Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka-1207 (Website: sau.edu.bd)

- Students' assessment by conducting exam and preparing evaluation papers.
- Conduct lectures on different courses, Sustainable Agriculture, Fundamentals of Agronomy, Weed Science.
- Research and Publications: Collecting fund, conduct field and lab experiments, report preparation and scientific writings.
- Participations and arranging workshop, training, conference and seminars.
- Attending farmers field visit and outreach programs by university research system.

Educational Institute

Dec 27, 2018- Dec 26, 2020

Lecturer, Department of Agronomy

Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka-1207 (Website: sau.edu.bd)

- Students' assessment by conducting exam and preparing evaluation papers.
- Conduct lectures on different courses, Sustainable Agriculture, Fundamentals of Agronomy, Weed Science.
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- Research and Publications: Collecting fund, conduct field and lab experiments, report preparation and scientific writings.
- Participations and arranging workshop, training, conference and seminars.

Educational Institute

EDUCATION

2015-2018

Masters' in Agronomy

CGPA (3.88/4.00)

Department of Agronomy, Sher-e-Bangla Agricultural University

- Research Methodology, crop physiology & stress agronomy, post-harvest technology, farming system, sustainable agriculture & organic farming

2010-2014

B.Sc. in Agriculture

CGPA (3.79/4.00)

Faculty of Agriculture, Sher-e-Bangla Agricultural University

- Economics, rural sociology, extension & information system, botany, chemistry, biochemistry, biotechnology, computer, plant pathology, Farm mechanics, environmental science, horticulture, genetics & plant breeding, entomology, agronomy

I had my masters in a sandwich program, Kagawa University, Agriculture, Japan where I conducted my research work in 'Laboratory of plant stress responses'. I had hands-on training on advance biochemical assay and spectrophotometric plant analysis.

COURSES

10.10.2022-09.12.2022	Short course on Plant Genetic Resources and Resilient Seed Systems for Sustainable Food Security, 2022 Wageningen Centre for Development Innovation (WC DI)
23.05.2022-24.06.2022	Short course on Potato Sector Development for Emerging Markets, 2021 Wageningen Centre for Development Innovation (WC DI)

PERSONAL SKILLS

Mother tongue(s) Bengali

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Expert	Expert	Expert	Expert	Expert
	IELTS (B2)				
Japanese	Elementary	Elementary	Elementary	Elementary	Basic
	A2				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through my experience as organizing different seminar, workshop and conference as an organizer
- I had worked in different field work where I achieved the art of teamwork
- As I was debater in university, I can easily communicate with people

Organisational / managerial skills

- I worked as co-moderator and advisor in different students' organizations (currently responsible in 04 student's clubs)
- I was the team leader and Vice-president of Transparency International Bangladesh, TIB, SAU-YES Group (2014-2016) and SAU Debating society (2014-2015), respectively.

Job-related skills

- I am a basic user of R. I can analyse data in Statistix 10 and excel.
- I am trained in Biochemical Assay, Spectrophotometrical Assay.
- I perform Scientific Writing individually, drafting manuscripts, submission, editing, experiment design and research proposal writing.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Basic User	Independent User	Proficient User	Independent User	Independent User

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)



Computer and IT skills

- I have good command of office suite (word processor, spread sheet, presentation software)
- I have advanced training course knowledge of Excel Skills for Business: Essentials
- I can prepare attractive PowerPoint presentation and digital scientific poster
- I have good command of photo editing software adobe illustrator and is an amateur photographer

Other skills

- I can design materials for digital campaign
- Have expertise in basic video editing and photography
- I can edit, design and develop websites (not professional)

ADDITIONAL INFORMATION

Publications

All my publications are attached in an attachment. You can also find the list in google scholar.



Scan it: Google Scholar

Presentations

1. **Scientific paper presentation** on 'Potassium-induced antioxidant defense and regulation of physiological processes towards drought stress tolerance in wheat (*Triticum aestivum* L.)' on 17th Conference of Bangladesh Society of Agronomy (BSA) "Theme: Agronomy for food and nutritional security", 2018.
2. **Poster presentation** on 'Potassium-induced antioxidant defense and regulation of physiological processes towards drought stress tolerance in wheat (*Triticum aestivum* L.) at Phytogene Symposium IX, 20 October 2017, Kagawa International Conference Hall, Takamatsu, Kagawa, Japan
3. **Poster presentation** on 'Morpho-physiological and biochemical performances of different sugarbeet genotypes under salinity stress' at GIAFAS-2021 3rd International Conference, 17-18 oct, 2021, Shri Guru Ram Rai University, Dehradun, Uttarakhand, India.
4. **Poster presentation** on 'Seed priming with PEG and H₂O₂ enhanced germination quality and early seedlings establishment in cowpea (*Vigna unguiculata*) under salt stress' at 5th International Conference on Biotechnology in health and Agriculture (ICBHA), 1-3 sept, 2023, Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka, Bangladesh.
5. **Poster presentation** on 'Projected changes in climatic variables and trends in wetland ecosystems of northeastern Bangladesh' at Cutting-Edge Solutions in Science, Agriculture, Technology, Engineering, and Humanities" (CSATEH-2024), held from August 24-26, 2024, at UGC-HRDC Hall, Kumaun University, Nainital, Uttarakhand, India.
6. **Poster presentation** on 'Analysis of changes in Blue Native/SDS-PAGE profiles of Nitrate Reductase and Glutamine Synthetase in maize (*Zea mays*, L.) roots after nitrate induction' at the XLII Convegno Nazionale della Società Italiana di Chimica Agraria "The contribution of agricultural chemistry to the global challenge for a sustainable crop production and preservation of ecosystem services" held in Alghero, Italy from 9 to 11 September 2024.

Projects/Grants (Valuation)

2023-2024
(\$655)

1. Efficacy of selective herbicides for targeted weed management in transplanted aman rice under varying waterlogged conditions. Funded by **Sher-e-Bangla Agricultural University Research System** (SAURES), 23-2024

2023-2024
(\$655)

2. Halopriming: Unleashing the potential of plant stress memory for enhanced crop production. Funded by **Ministry of science & Technology** (R & D), 23-2024

- 2022-2023
(\$655)
- 2022-2023
(\$1050)
- 2021-2022
(\$875)
- 2020-2021
(\$790)
- 2019-2020
(\$740)
3. Naphthyl acetic acid (NAA)-induced improvement of morpho-physiological, biochemical and seedlings traits of mungbean (*Vigna radiate* L.) under salt stress. Funded by **Ministry of science & Technology** (R & D), 22-2023
 4. Seed priming with thiourea and hydrogen peroxide improves morpho-physiological, biochemical and yield attributes of soybean (*Glycine max*) under salinity stress. Funded by **Sher-e-Bangla Agricultural University Research System** (SAURES), 22-2023
 5. Morpho-physiological, biochemical and yield enhancement of mustard by foliar application of kinetin and abscisic acid under water deficit stress. Funded by **Ministry of science & Technology** (R & D), 21-2022
 6. Mitigating salt stress in soybean by seed priming with different osmopriming agents. Funded by **Ministry of science & Technology** (R & D), 20-2021.
 7. Screening of Soybean Genotypes for Waterlogging Stress Tolerance and Understanding the Tolerance Mechanism. Funded by **Ministry of science & Technology** (R & D), 19-2020.

Conferences

1. 1st International Conference on Recent Advances in Agricultural Sciences (ICRAAS) on the Theme "Innovations and Translational Research in Agriculture" on 16 – 17 March 2021 at NOIDA, Amity University Uttar Pradesh.
2. 7th International Symposium on Strategies for Sustainability in Food Production, Agriculture and the Environment 2021, ISFAE 2021 NIIGATA. ISFAE 2021 NIIGATA is the online International Symposium organized by the Faculty of Agriculture, Niigata University on December 2 - 3, 2021.
3. Participated in IX Phytogene Symposium on 20th October 2017, Plant Genome and Resource Research Center, Faculty of Agriculture, Kagawa University, Japan.
4. Participated in 17, 18, 19 and 20th conference of Bangladesh society of Agronomy (BSA).
5. EJEI International Conference 2021 on 'Human-centered Sustainability and Innovation for an AI-assisted Future: New Interdisciplinary Education & Research for the Next Stages in Japan and Europe' October 22nd - 24th, 2021 in Takamatsu, Japan and online
6. International Conference on Global Initiatives in Agricultural, Forestry and Applied Sciences (Theme: Food Security, Environmental Safety and Sustainable Development) (GIAFAS-2021) October 17-18, 2021
7. Participated in X Phytogene Symposium on 25th January, 2021, 'The possibilities and future'. Plant Genome and Resource Research Center, Faculty of Agriculture, Kagawa University, Japan.
8. Annual meeting of the ACSE on 21st August, 2022.
9. 5th International Conference on Biotechnology in health and Agriculture (ICBHA), 1-3 sept, 2023, Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka, Bangladesh.
10. **Participated in** "Cutting-Edge Solutions in Science, Agriculture, Technology, Engineering, and Humanities" (CSATEH-2024), held from August 24-26, 2024, at UGC-HRDC Hall, Kumaun University, Nainital, Uttarakhand, India.
11. **Participated in** XLII Convegno Nazionale della Società Italiana di Chimica Agraria "The contribution of agricultural chemistry to the global challenge for a sustainable crop production and preservation of ecosystem services" held in Alghero, Italy from 9 to 11 September 2024.

Seminars

1. Academy Lecture on "Saline Tolerant High Yielding Rice: Is the Way Forward through DNA Markers, Genetic Modification or Gene Editing?" to be presented by Prof. Dr. Zeba Islam Seraj, Fellow, BAS & Professor, Department of Biochemistry and Molecular Biology, University of Dhaka, organized by the Bangladesh Academy of Sciences. Held on Monday, 16 August 2021 at 5:00 p.m. on a Zoom platform.
2. How to Write a Manuscript: Expert Advice on Getting Published, A webinar by Frontiers in Agronomy on Nov 24, 2021.

3. Academy Lecture on "Approaches for Enhancing Abiotic Stress Tolerance in Crop Plants" to be presented by Prof. Dr. Mirza Hasanuzzaman, Fellow, BAS & Professor, Department of Agronomy, Sher-e-Bangla Agricultural University, organized by the Bangladesh Academy of Sciences. Held on Monday, 08 March 2021 at 11:00 a.m. on Zoom platform.
4. National webinar on the traditional role of plants for health and stress management in the context of covid-19 pandemic" organized by the Dept. of Botany, Rural institute of Higher Studies (RIHS), Bhograi, Balasore, Odisha, India on Oct 21, 2020
5. Global Symposium on Literature Search: Advocating smart ways to discover and read academic literature" held on 28 May 2021 arranged by R Discovery.
6. Plant Cell Compartments 2022: Stay Connected" symposium. March 17th-18th, 2020

Honours and awards

1. Academic Deans' Award, 2019 (Faculty of Agriculture).
2. Best scientific paper presenter Award (Student category), 17th Conference of Bangladesh Society of Agronomy (BSA) on "Agronomy for food and nutritional security".

Memberships

1. Life member of Bangladesh Society of Agronomy (BSA) [L576]
2. Life member of Weed Science Society of Bangladesh (WSSB)
3. Life member, Ecological Society of Bangladesh (ESB)
4. Life Member of Sher-e-Bangla Agricultural University Teachers' Association (SAUTA)
5. General member, Global network of Bangladeshi biotechnologists (GNOBB)
6. Member of International Associations for Agricultural Sustainability (IAAS)
7. Member at British Ecological Society (CON-1042221)
8. Member at World association for scientific research and technical innovation
9. Member at Teaching & Education Research Association
10. Member at International Society for Environmental Information Science (ISEIS)
11. Global Outreach - Contributing Member of the American Society for Microbiology

Fellowship

1. Special Research Student, Laboratory of plant stress responses **Kagawa University, Agriculture, Japan**. Advanced Practical Training on Plant Stress Physiology. Funded by Japan Student Services Organization (JASSO), 2017.
2. Improvement of grasspea (*Lathyrus sativus*) production through shortening plant height. Funded by Ministry of science & Technology (**NST Fellowship**), 2016.
3. Teach for Bangladesh, TFB fellowship, 2016.

Scholarships

1. **OKP scholarship** for the short course on Climate action for food system transformation, 2023.
2. **OKP scholarship** for the short course on Plant Genetic Resources and Resilient Seed Systems for Sustainable Food Security, 2022.
3. **OKP scholarship** for the short course on Potato Sector Development for Emerging Markets, 2021.

Trainings

1. Understanding research matrices and finding relevant journals to read and publish, June 26, 2022, IQAC, SAU
2. Journal selection and paper submission, June 27, 2022, IQAC, SAU
3. Training on "Experimental Design and Statistical Analysis using R" on 2-3 march, 2021.
4. Training workshop on scientific writing and publications, SAU, 2019.

Certifications

1. Excel Skills for Business: Essentials - Macquarie University (ID: SGU3A5EDCG9B)
2. The Art of Public Speaking, Bangladesh Youth Leadership Center (ID: APS200283).
3. Food Safety Knowledge - Basic Level Requirements – Revised (ID: 1856-15585132).
4. Fundamentals of Storytelling in Education for Teachers and Trainers (ID: 1702-15585132).

Others job experiences

1. **Junior Agricultural Executives**, mPower Social Ltd., Bangladesh (Dhaka, Bangladesh), 2016
2. **Program support Assistant (PSA)**, FAO, Bangladesh (Dhaka, Bangladesh), 2016
3. **Resource Trainer**, PACE Program, BRAC (Dhaka, Bangladesh), 2013-2015

References**Dr. Mirza Hasanuzzaman**

Professor, Department of Agronomy,
Sher-e-Bangla Agricultural University.
mhzsauag@yahoo.com,
Cell: +8801716587711

Dr. Kamrun Nahar

Professor, Dept. of Agricultural Botany,
Sher-e-Bangla Agricultural University.
knahar84@yahoo.com,
Cell: +88 01784551173

I the undersigned, hereby declare that the above information is true, complete and correct to the best of my knowledge and concern. These data correctly describe my qualifications and me.

Date: Dhaka-1207
April 25, 2024

**Signature**