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Masud Chy. is an agronomist, academician, and PhD researcher specializing in plant proteomics. With a background in agriculture and agronomy, he has international research experience in Japan and Senegal. Passionate about sustainable farming, AI in agriculture, and clean energy, he actively contributes to scientific writing and research publications. He has completed multiple international courses on climate action, plant genetics, and potato sector development under the Orange Knowledge Program. Skilled in public speaking, leadership, and tech-driven education, he is currently based in Milan, seeking part-time opportunities while advancing his research and mentoring students in academia.

Work Experience

Nov, 2023 – Current | Milano, Italy

Doctoral Researcher Università Degli Studi Di Milano

Dec, 2020 – Current | Dhaka, Bangladesh

Assistant Professor Sher-e-bangla Agricultural University

Dec, 2018 – Dec, 2020 | Dhaka, Bangladesh

Lecturer Sher-e-bangla Agricultural University

Oct, 2016 – Mar, 2017 | Dhaka, Bangladesh

Junior Agricultural Executive (JAE) mPower Social Enterprises Ltd., Bangladesh

Apr, 2016 – Aug, 2016 | Dhaka, Bangladesh

Programme Support Assistant (PSA) Food And Agriculture Organization (FAO), Bangladesh

Education

Doctoral student | Università degli Studi di Milan (2023-present)

Special research student | Kagawa University, Kagawa, Japan (2017-2018)

Masters in Agronomy | Sher-e-Bangla Agricultural University (2015-2017)

Bachelor of science in Agriculture (B.SC. AG) | Sher-e-Bangla Agricultural University (2010-2014)

Publications

A total of eighteen publications, including three book chapters, three review articles, and twelve research articles, have been published in peer-reviewed journals. Find the full list in **QR code**.

Conferences & Seminars

XLIII National Conference on “The Contribution of the Agricultural Chemistry to Healthy and Resilient Agroecosystems and to the One Health Vision”, 2025, Padua, Italy

XLII National Conference on “The contribution of agricultural chemistry to the global challenge for a sustainable crop production and preservation of ecosystem services”, 2024 Hotel Catalunya, Alghero, Italy

10th International Conference on “Water and Flood Management - ICWFM 2025, with special focus on Water and Ecosystem Conservation for Climate Resilience”, 2025, CIRDAP International Conference Center (CICC), Dhaka, Bangladesh

6th International Conference on Cutting-Edge Solutions in Science-Agriculture, Technology, Engineering and Humanities (CSATEH-2024), 2024, Kumaun University, Nainital, Uttarakhand, India

1st International Conference of Ecological Society of Bangladesh (ESB), 2023, Tula Bhaban of Cotton Development Board, Farmgate, BD

5th International Conference on Biotechnology in health and Agriculture (ICBHA-2023) Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka, Bangladesh.

22th national conference of Bangladesh society of Agronomy (BSA), on “Agronomic Education and Research Towards Transforming Agriculture in Bangladesh”, 2023, Bangladesh Agricultural University

1st International Conference on Climate Resilient Weed Management in the Era of Climate Change”, 2022, WSSB, at Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

3rd International Conference on “Global Initiative in Agricultural, Forestry and Applied Sciences For Food Security, Environmental Safety and Sustainable Development (GIAFAS-2021), Shri Guru Ram Rai University, Dehradun, Uttarakhand, India.

Poster Presentations

1. 'Morpho-physiological and biochemical performances of different sugarbeet genotypes under salinity stress' at **GIAFAS-2021**, Shri Guru Ram Rai University, Dehradun, Uttarakhand, India.
2. 'Potassium-induced antioxidant defense and regulation of physiological processes towards drought stress tolerance in wheat (*Triticum aestivum* L.)' at **Phytogene Symposium IX-2017**, Kagawa International Conference Hall, Takamatsu, Kagawa, Japan.
3. 'Seed priming with PEG and H₂O₂ enhanced germination quality and early seedlings establishment in cowpea (*Vigna unguiculata*) under salt stress' at **ICBHA-2023**, University of Dhaka, Bangladesh.
4. 'Projected changes in climatic variables and trends in wetland ecosystems of northeastern Bangladesh' at **CSATEH-2024**, Kumaun University, Nainital, Uttarakhand, India.
5. 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 **SICA-XLII**, Alghero, Italy.

Course and Trainings

- Climate action for food system transformation I Dakar, Senegal (2023)
- Plant genetic resources and resilient seed systems for sustainable food security (2022)
- Potato sector development for emerging markets (2022)

Arranged by Wageningen Centre for Development Innovation, WCDI, WUR

- Excel Skills for Business: Essentials - Macquarie University, 2020, offered by Coursera (ID: SGU3A5EDCG9B)
- Training Program on "Digital service design & planning lab for uniform university management system & national integrated university information platform", 2020, PWD conference room, segunbagicha, Dhaka.

Projects

- Efficacy of selective herbicides for targeted weed management in transplanted aman rice under varying waterlogged conditions. SAU Research System (SAURES) (2023-2024).
- Halopriming: Unleashing the potential of plant stress memory for enhanced crop production. 2023-2024. Funded by the Ministry of Science & Technology (R&D).
- Seed priming with thiourea and hydrogen peroxide improves morpho-physiological, biochemical and yield attributes of soybean (*Glycine max*) under salinity stress. (SAURES) (2022-2023)
- Naphthyl acetic acid (NAA)-induced improvement of morpho-physiological, biochemical and seedlings traits of mungbean (*Vigna radiata* L.) under salt stress. 2022-2023. (R&D).
- Morpho-physiological, biochemical and yield enhancement of mustard by foliar application of kinetin and abscisic acid under water deficit stress. 2021-2022. (R&D).
- Mitigating salt stress in soybean by seed priming with different osmopriming agents. 2020-2021 (R&D).
- Screening of Soybean Genotypes for Waterlogging Stress Tolerance and Understanding the Tolerance Mechanism. 2019-2020. (R&D).

Honours & Awards

Academic Deans Award – Sher-e-Bangla Agricultural University (2019).

Best scientific paper presenter Award (Student category), Bangladesh Society of Agronomy (BSA-2018)

Japan Student Services Organization (JASSO) scholarship, 2017

Teach for Bangladesh (TFB) fellowship, 2016

NST Fellowship, 2016 – Ministry of science & Technology (MoST), Bangladesh.

Communication & interpersonal skills

Public Speaking & Presentation | Academic Writing | Team Collaboration & Leadership | Cross-Cultural Communication | Training & Workshop Facilitation | Networking & Professional Engagement

Peer review & Editorial Activities

1. Review Editor for Earth Sciences Frontiers for Young Minds
2. Active peer reviewing at Frontiers in plant science, FYM, MDPI and Elsevier Journals.

Languages & Digital skills

Professional advanced English, Basic speaking of Japanese and Italian.

Digital skillsets: Information and data literacy | Communication and collaboration | Digital content creation | Safety | Problem solving

Networks & Memberships

- Life member at Ecological Society of Bangladesh (ESB)-LM-23-274
- Member at Global network of Bangladeshi Biotechnologists (GNOBB)
- Agronomy Alumni Association of SAU (AAAS)
- Executive member at Netherlands Alumni Association of Bangladesh (NAAB)-GM-NAAB23-05
- Life member at Weed Science Society of Bangladesh (WSSB)
- Life member at Bangladesh Society of Agronomy (BSA)-L576

Recommendations

Bhakti Prinsi | Supervisor

Bhakti Prinsi is an Associate Professor in the Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy at Università degli Studi di Milano (UNIMI). Specializing in Agricultural Chemistry, their research focuses on Agricultural Chemistry, Agricultural Genetics, and Pedology. With extensive experience in agriculture and environmental sciences, Bhakti contributes significantly to advancements in sustainable agricultural practices and agroenergy solutions, aiming to address the challenges of food security and environmental sustainability.

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Luca Espen | PhD Co-Tutor

Luca Espen is a Full Professor in Agricultural Chemistry at the Department of Agricultural and Environmental Sciences Production, Landscape, Agroenergy at the University of Milan (Università degli Studi di Milano). He has held this position since June 1, 2018, following his previous tenure as Full Professor from January 3, 2005, to May 31, 2018, and as a faculty member from June 1, 1998, to January 2, 2005. Professor Espen specializes in plant biology and agricultural biochemistry, with extensive contributions to sustainable farming practices and agroenergy. He holds a degree in Biological Sciences from the University of Florence and a PhD in Plant Biology and Crop Productivity.

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Link <https://www.unimi.it/it/ugov/person/luca-espen>

I hereby declare that all the information provided in this CV is true and accurate to the best of my knowledge. I take full responsibility for the authenticity of the details mentioned above.



Milano , 10/09/2026

Abdul Awal Chowdhury Masud



Publication list