ZOHEB HASAN FAHAD

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RESEARCH PROFILE

Advancing postharvest quality management from field to table through integrated approaches to postharvest handling, quality preservation, shelf-life extension, loss reduction, food safety, storage, packaging, processing, value addition, and sustainable supply-chain management of agricultural produce.

EDUCATION

Degree	University	Year
MS in Food Engineering	Bangladesh Agricultural University, Mymensingh	2018
BSc in Food Engineering	Bangladesh Agricultural University, Mymensingh	2016

PUBLICATIONS

1. Fahad, Z. H., Rana, J., Jubayer, M. F., Ferdoush, Z., Mow, S. I., Hossain, M. A., ... & Aziz, M. G. (2026). Comparative study of carboxymethylcellulose and maltodextrin encapsulation on physicochemical and antioxidant properties of mint (Mentha piperita L.) extract powder. *Food and Humanity*, *6*, 101071.

2. Quddus, M. A., Ahmed, R., Khan, M. S. U., Sarker, K. K., Islam, M. T., Sultana, N. A., ... & Hossain, A. (2026). Combined effects of magnesium and micronutrients on growth, yield, quality, and nutrient use efficiency of bitter gourd in terrace soils. *Discover Plants*, *3*(1), 312.

3. Yasmin, S., Emon, D. D., Rana, J., Ferdoush, Z., Fahad, Z. H., & Aziz, M. G. (2025). Conversion of coconut water to vinegar by acetic acid bacteria isolated from fruit waste: a two-stage fermentation and quality analysis. *Applied Food Research*, 101319.

4. Quddus, A., Ahmed, R., Khan, S. U., Purnota, S. J., Islam, T., Sultana, N. A., ... & Uddin, K. (2026). Sustainable garden pea cultivation: a comprehensive evaluation of organic, inorganic, and bio-fertilizer impacts on productivity, quality and nutrient dynamics. *International Journal of Plant Production*, *20*(1), 22.

5. Quddus, M. A., Ahmed, R., Islam, M., Haque, M. E., Islam, M. A., Alam, A., ... & Hossain, A. (2025). Organic and inorganic fertilizers influence the productivity, fruit quality and nutrient use efficiency of strawberry (Fragaria× ananassa Duch.). *Scientific Reports*, *15*(1), 26252.

WORK EXPERIENCE

Role	Duration	Key Responsibilities
Scientific Officer Bangladesh Agricultural Research Institute	January, 2023 to Present	Applied Research bridging with national policy and interests
Lecturer State University of Bangladesh	September, 2019 to June, 2021	Teaching & supervising undergraduate students

TRAININGS

No.	Name of Program	Organization	Date
01.	Commercial Floriculture: Farm to Market	National Agriculture Training Academy (NATA)	January, 2026
02.	Data Analytics and Design of Experiments Using R Software	ASICT Division, Bangladesh Agricultural Research Institute (BARI)	July, 2025
03.	Research Methodology	Bangladesh Agricultural Research Institute (BARI)	March, 2025
04.	Postharvest Processing Technology for Food and Nutritional Security	Bangladesh Agricultural Research Council (BARC)	January, 2025
05.	Food Processing and Preservation Techniques	National Agriculture Training Academy (NATA)	December, 2023
06.	Value Chain Management of Economically Important Horticultural crops	National Agriculture Training Academy (NATA)	November, 2023
07.	Nutrition and Food Safety	National Agriculture Training Academy (NATA)	January, 2023

RESEARCH METHODS & TECHNICAL SKILLS

Methodology	Software / Tools	Lab / Field Skills
Wet chemistry & instrumental methods, **Food processing & quality control,** **Sensory evaluation,** **Data Analysis & Design**	**R,** **SPSS,** **MS word,** **MS excel,** **MS power point**	**Nutrient analysis,** **Physicochemical analysis,** **Food product development,** **Crop production management**

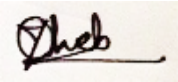
AWARDS & SCHOLARSHIPS

- National Science and Technology (NST) Fellowship for MS research work entitled 'EFFECT OF ENCAPSULATION AGENTS ON POWDER AND BIOACTIVE PROPERTIES OF MINT EXTRACT'.

PROFESSIONAL MEMBERSHIP

Organization	Membership No.
1. The Institutions of Engineers, Bangladesh	M/47677
2. Krishibid Institution Bangladesh	07-16-24769

I hereby declare that all the information furnished above is true and correct to the best of my knowledge and belief.



Zoheb Hasan Fahad