

UMMA HANEY PINKE

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EDUCATION

University of Dhaka

Masters of Science (Thesis Group)

Focal Area: Environment

Thesis title: Impacts of Climate Change and Indigenous Organic Amendments on Soil CO₂, Microbial Biomass, and Rice Production

Dhaka, Bangladesh

Session: 2016-2017

CGPA: 3.92 /4.00

University of Dhaka

Bachelor of Science

Department of Soil, Water and Environment

Dean's Award recipient

Dhaka, Bangladesh

Session: 2015-2016

CGPA: 3.90 /4.00

RELEVANT COURSEWORK

Analytical Techniques and Experimental Design, Advanced Soil Chemistry, Soil Carbon Dynamics and Organic matter Management, Environment Quality, Environmental Impact Assessment, Environmental Ecology, Environmental Biotechnology.

PROFESSIONAL EXPERIENCE

Bangladesh Water Development Board

Research Officer (Soil)

Dhaka, Bangladesh

09 June, 2019- Present

- Contributed significantly to various government initiatives, including key projects under the Bangladesh Climate Change Trust Fund and Feasibility Study projects.
- Prepares and analyses Environmental and Social Impact Assessment (ESIA) reports for various projects.
- Focus Group Discussions (FGDs) and Public Consultation Meetings (PCMs) with stakeholders.

INVOLVEMENT EXPERIENCE

Department of Soil, Water & Environment

Research Associate

University of Dhaka

2017- 2018

- Maintain incubation and field Study, Collection and analysis of soil sample and data.
- Laboratory work by using spectrophotometer.
- Data interpretation and presentation using Minitab, Report writing.

PROJECT EXPERIENCE

Name of Project:

Assessment of Impacts of Climate Change on Soil Health and Food Security, and Adaptation of Climate-Smart Agriculture in Most Adversely affected Areas of Bangladesh | Duration: 2017- 2018

- Conducted field trials in highly vulnerable agro-climatic regions, particularly in salt-affected coastal soils, unproductive/low-productive/marginal lands, and the Ganges-Brahmaputra-Meghna floodplains.
- Collaborated with a team, utilizing strong communication skills to coordinate experiments and delegate responsibilities over a 12-month period.
- Arrangement of field demonstrations and workshops to disseminate the suitable outcomes of project to the relevant people.

Bangladesh Climate Change Trust Fund projects implementation by Bangladesh Water Development Board | Duration: 2019-ongoing

- Responsible for preparing project proposals, securing project funding, and drafting Project Completion Reports (PCRs) for completed projects, which were submitted to the Ministry of Water Resources with the approval of the Honorable Director General of the Bangladesh Water Development Board.

Feasibility Study for Integrated Water Resources Management and Development of Polder No. 73/1 (A+B) and 73/2 in Hatiya Upazila under Noakhali District | Duration: 2022-2024

- Arranging inception, interim and draft final meetings for collection, compilation and processing of information/data at various stages of the plan.
- Assist in proper preparation and editing of relevant chapters of survey report based on project inspection, observation and data.

DATA ANALYST SKILLS WITH VERIFIED CERTIFICATION

- Tools for Data Science - authorized by IBM.
- Data Science: R Basics in Harvard University Online Courses.
- Data Analysis with R Programming authorized by Google and offered through Coursera.
- Publication-Ready Tables in R authorized by Coursera Project Network.
- Programming for Everybody (Getting Started with Python) authorized by University of Michigan and offered through Coursera.

PUBLICATIONS

- **As first author:** Evaluation of Key Surface Water and Soil Quality Parameters in Hatiya, Northern Bay of Bengal, submitted to the Journal of Coastal Conservation (Submission ID: JCCO-D-24-00192), is currently under review.
- **As third author:** Field evaluation of mungbean varieties for resistance against pod borer complex (DOI: 10.3329/jujbs.v12i1.74478).

ATTENDANCE OF GLOBAL CONFERENCE

Contribution during the Annual Global STEAM Conference held on September 5, 2024, Theme: Building Bridges to a Sustainable Future.

STANDARDIZED TEST SCORES

International English Language Testing System (IELTS) – 02th November, 2024

Overall Band Score	CEFR Level	Listening	Reading	Writing	Speaking
7.5	C1	8.5	7.5	6.5	6.5

ACCOMPLISHMENTS

- Training course on ‘Research Methodology: Basic to Advanced’ | Organization: Research Help Bangladesh | From May 15, 2024 to Date August 30, 2024
- Participated in a comprehensive foundation training program as Research Officer (Soil) | Organization: Irrigation Extension Training Centre, Kushtia and Engineering Academy, Kaptai, Bangladesh Water Development Board | From August 7, 2023 to September 15, 2023
- Training on ‘Implementation of E-Governance and Innovation Work plan’ | Organization: Central ICT Directorate, Bangladesh Water Development Board | From June 20, 2023 to June 21, 2023
- Apprising Bangladesh Delta Plan 2100 | Organization: General Economics Division, Bangladesh Planning Commission, Ministry of Planning, Government of the People’s Republic of Bangladesh | From January 23, 2023 to January 25, 2023.
- Integration of Gender concerns and Equity in Climate Change Projects | Organization: Centre for Climate Change and Environmental Research, Bangladesh Climate Change Trust Fund, Ministry of Environment, Forest and Climate Change, Government of the People’s Republic of Bangladesh | From November 20, 2022 to November 21, 2022.

HONORS AND AWARDS

Honorary award from the Prime Minister	National Science and Technology	2018
Merit Scholarship for excellent academic performance	Directorate of Secondary and Higher Secondary Education, People’s Republic of Bangladesh	2009 and 2011