# Mehedi Hasan

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## RESEARCH INTEREST

- Climate Justice
- Climate Adaptation
- Participatory Policy Analysis and Advocacy
- Natural Resources Rights and Management

## EDUCATION

**Bachelor of Science in Environmental Science**                    *Passing year: 2021*

Jashore University of Science and Technology, Jashore, Bangladesh

Related coursework: Environmental Management Systems (EMS), Environmental Impact Assessment (EIA), Environmental Ethics, Protocols and Laws, Industrial Pollution & Management, Climate Change and Adaptation, Disaster Management, Biodiversity Conservation & Ecotourism, Toxicology and Eco-toxicology, Water & Wastewater Treatment, Energy and Environment, Research Methodology, Environmental Modeling, Environmental Pollution. GIS.

Result/CGPA: 3.19 out of 4

## TECHNICAL SKILLS

**Research:** Experienced in research co-design, policy evaluation, quantitative and qualitative research, and mixed methods approaches. Expertise in interviews (Individual and KII), ethnographic fieldwork, focus groups discussions (FGDs), data collection tools development, data analysis, geospatial data collection and analysis.

**Software and applications:** Microsoft Office Suite, NVivo, Power Bi, ArcGIS, QGIS, Pix4D, Google Earth Engine, SPSS, Origin, STATA, Python, R, HTML, CSS, KuboToolbox, SureveyCTO

**Languages:** Bengali *(Native),* English *(full professional proficiency)*, Hindi *(Basic)*.

## PROFESSIONAL EXPERIENCES

**Programme Quality Officer**                                    *March 2024 to Present*
**Research Assistant**                                           *April - February 2024*

Organization: Oxfam

- Co-designed, co-created and co-facilitated community-based research approach.
- Developed research frameworks, data collection tools and managed data collection from the field
- Undertook surveys and interviews, FGDs, KIIs and through participatory approach (PRA) with diverse communities and governmental stakeholders and private sector stakeholders in Urban and Rural setting.
- Applied Skills and experiences in operating Drone: DJI Mavic 3 Multispectral for real time Remote Sensing, adept in aerial surveying, data acquisition with drone safety protocols.
- Provided remote sensing (RS) data collection, management, and analysis utilizing Pix4ddesktop, Pix4dcloud, Drone Deploy, DJI Terra, and GIS software ArcGIS Pro, ArcGIS, and QGIS for research mapping.
- Conducted analytical write-ups including preparing analytical reports, presentations and publications.

**Research Coordinator**                                         *August 2021 – March 2022*
**Research Assistant and Analyst**                               *June 2021 - August 2021*

Organization: Centre for Environment and Climate Change Research (CECCR)

- Lead participatory, data-driven, result-oriented, goal-focused collaborative R&D activities.
- Managed data through input & analysis by various tools (MIS, KuboToolbox, SurveyCTO, SPSS, NVivo).
- Ensured flawless data collection analyzed data from surveys, interviews, focus group discussions, and secondary sources using quantitative and qualitative methods from field and households.
- Prepared and presented research findings, results and field reports to the project leader and stakeholders.
- Collaborated with a multidisciplinary team of researchers, veterinarians, extension workers, and local community members through accountability to the development projects participants with gender balance.

## RESEARCH PROJECTS, CONFERENCE PRESENTATION & MANUSCRIPT

### Publications

***Abundance and distribution of anthropogenic marine litter on the beaches of*** March 18, 2024
***Sonadia Island: An Ecologically Critical Area***

Regional Studies of Marine Science | doi.org/10.1016/j.rsma.2024.103690

***Adapting to change: Exploring reverse migration as coping strategy among internal*** August 26, 2023
**migrants in Bangladesh, Heliyon** | doi.org/10.1016/j.heliyon.2023.e19479

### Research Projects

***Climate Adaptation through Community Stewardship in Ecosystem Restoration and*** *Ongoing*
*Management*
Developed research frameworks and tools for field data collection, followed by GIS and RS analysis, leading to sustainable forest resource management.

***Evaluating Renewable Energy Adoption and green jobs in RMG Industries***          *2024*
Analyzed renewable energy policies, focusing on solar and wind adoption in Dhaka's RMG sector, providing recommendations for policymakers.

***Gender and Climate Justice: Impacts of Environmental Policy on Women***          *2024*
Assessed the gendered impact of environmental policies through interviews and reports, offering gender-responsive climate recommendations for international forums.

***Youth-Led Climate Initiatives in the Asia-Pacific Region***          *2023*
Mapped youth-led climate initiatives in the Asia-Pacific through surveys and interviews, publishing insights to boost youth participation in climate policy.

***Assessment of Indigenous Knowledge and Technology Used for Climate Adaptation and***     *2023*
***Resilience in Bangladesh.***
Evaluated indigenous knowledge and technologies for climate adaptation in Bangladesh, highlighting traditional resilience strategies in national adaptation frameworks.

***Impact of Climate Change on Occurrence and Distribution of Animal Diseases and Deaths***    *2023*
***in Small Holder Farming Systems: An Investigation of Farm-level Experiences.***
Investigated the effects of climate change on animal diseases and mortality in smallholder farms, offering insights into farm-level climate resilience.

***Integrated Assessment Study on Sustainability of Safe Drinking Water Supply in***       *2019*
***Bangladesh.***
Performed an integrated assessment on the sustainability of safe drinking water supply systems in Bangladesh, focusing on long-term water security strategies.

## Conference Presentation
***Assessment of Community Stewardship over Ecosystem Services within Climate***   *November 2023*
***Nexus: A Pathway Towards Locally-led Adaptation in Nijhum Dwip, Bangladesh.***
South Asian Climate Conference

***Youth in the Fight Against Climate Change: Policy and Practice***          *April, 2023*
Presented at the 'Youth Summit on Climate Actions,' organized by the United Nations in Dhaka.

## Manuscript Under Review
***Exploring Climate Justice and Natural Resource Rights: Climate Adaptation through Community***
***Stewardship in Ecosystem Services Management in MPA.***
Manuscript submitted in the Journal of *Ocean & Coastal Management (Co-authored)*        *2024*

## AWARDS ANDSCHOLARSHIPS
**Climate Change Ambassador Award**          *2024*
Acknowledged for leadership in youth-led initiatives in climate advocacy and action at the national level.

**Rising Star Award**          *2023*
Awarded for outperforming and consistent high performer for the fiscal year 2023 at Oxfam in Bangladesh

**Best Dissertation Award**          *2023*
Awarded for the best dissertation of the session 2017-18 in the Department of Environmental Science and Technology at Jashore University of Science and Technology.

**Bangladesh Poribeshbid Society Research Scholarship**          *2022*
Awarded to support the bachelor's dissertation

**Runner-up at Inter-University Poster Presentation Competition**          *2021*
Won 2nd place in the inter-university poster presentation in "Environmental Innovative Solution" Category

**Dr M. N. Khan Scholarship**
Awarded to support the BSc degree pursued at Jashore University of Science and Technology      *2018*

## RELEVANT TRAININGS & COURSES
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| **Earth Observations for Humanitarian Applications** \| NASA's Applied Remote Sensing Training (ARSET) | *June 2024* |
| **Key Roles of Youth and Children to Address Loss and Damage under the Youth and Children Platform on Loss & Damage (YCPLD)** \| ICCCAD | *May 2024* |
| **NVivo for Qualitative and PowerBi for Data Visualization** \| Oxfam | *March 2024* |
| **SPSS for Quantitative Data Analysis** \| Oxfam | *February 2024* |
| **Project Design Development and Setting Indicators** \| Oxfam | *April 2023* |