

Sheikh Samanin Tasnim

Researcher



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M.S. degree holder from two reputed universities in major relevant to Disaster Science and Management (The University of Dhaka) and Sustainability studies (The University of Sydney) specializing in Remote Sensing approach. I am highly motivated and passionate about qualitative and quantitative research of multi-causal disaster analysis, prediction, and assessment to prevent or revert the risk, damage and loss involved with disaster both in Bangladesh and internationally.

Work Experience:

1. Lecturer(full-time)

Faculty of Environmental Science and Management, North South University, Dhaka, Bangladesh

Duration: January,2022-Present

2. Research Apprentice

Centre of Advanced Modelling and Geospatial Information Systems (CAMGIS) UTS, NSW, Australia

Duration: 02/2021 - 07/2021 **Location:** Sydney, Australia

Achievements/Tasks:

Collaboration research as a part of M.S. thesis paper under The University of Sydney in the topic of Remote sensing-based time series of eutrophication assessment of two river estuaries in Bangladesh and New South Wales and formulating management strategies

3. Research Assistant

Dept. of Disaster Science and Management, the University of Dhaka

Duration: 01/2018 - 01/2020 **Location:** Dhaka, Bangladesh

Achievements/Tasks:

Working under the supervision of my supervisor for time series multi-criteria hazard assessment (time series land subsidence hazard, urban heat island analysis, hydro-meteorological drought monitoring and environmental and anthropogenic vulnerability assessment) and scientific publication in journals which specializes in the research arena of remote sensing hazard and disaster analysis and prediction. Completion of both Honours and Master's thesis was also done while being under this post.

4. Researcher

OXFAM Bangladesh, PROTIC project

Duration: 01/2018-06/2019 **Location:** Dhaka, Bangladesh

Achievements/Tasks: Soil salinity hazard and vulnerability assessment research for Sathkhira District (for coastal Bangladesh community)

1 | Page

Academic Qualification:

- Bachelors (February, 2014- November, 2018):** B.S. Honours in Disaster Science and Management, Faculty of Earth and Environmental Science, the University of Dhaka C.G.P.A. - 3.71 Thesis topic: Time Series Analysis of Subsidence in Barapukuria, Rangpur, Bangladesh using INSAR
- Masters (December, 2018- December 2019):** M.S. in Disaster Science and Management, Faculty of Earth and Environmental Science, the University of Dhaka. C.G.P.A. - 3.58
Thesis topic: Hydro meteorological drought assessment of Rangpur district, Bangladesh
- Masters (March, 2020- July, 2021):** M.S. in Sustainability, the University of Sydney. Grades: Distinction (77.4%)
Research Topic: Time series comparative and quantitative assessment of eutrophication for Karnufuli river estuary, Bangladesh and Hawkesbury Nepean river estuary, New South Wales and management strategy analysis.

Publication:

- [1] D. M. Enamul Haque, T. Hayat, and S. Tasnim, "Time Series Analysis of Subsidence in Dhaka City, Bangladesh Using Insar," *Malaysian J. Geosci.*, vol. 3, no. 1, pp. 32–44, 2019, doi: 10.26480/mjg.01.2019.32.44.
- [2] T. R. C. Sheikh Samanin Tasnim, B.M.Rabby Hossain, ASM Maksud Kamal, Md. Shahidul Islam, "Soil Salinity Hazard Assessment and Delineating Suitable Location for Paddy Cultivation in Coastal Bangladesh," in *International (SAARC) Youth Scientific Conference (ISYC)*, 2019, pp. 241–248.

Fellowship:

Bangabandhu Science and Technology Fellowship (Full funded) for M.S. in Sustainability, The University of Sydney, Australia (September, 2019 – September, 2021)

Awarded by: Bangabandhu Science and Technology Fellowship Trust Government of the People's Republic of Bangladesh Ministry of Science and Technology BCSIR Complex, Dhanmondi, Dhaka- 1205

Certifications:

- Programming for Everybody (Getting Started with Python), Coursera (University of California, Davis) December 2018 (This credential does not expire)
Credential URL: <https://www.coursera.org/account/accomplishments/verify/T2QT6D8DFNGZ>
- Satellite Observations for Analyzing Natural Hazards on Small Island Nations NASA's Applied Remote Sensing Training Program
Certification: <https://drive.google.com/file/d/1R9Lg6dLeYwzCCD1uD6CiDCYa1mkihyjk/view?usp=sharing>
- Monitoring Coastal and Estuarine Water Quality: Transitioning from MODIS to VIIRS

- NASA's Applied Remote Sensing Training Program
Certification: In Progress
4. Introduction and Access to Global Air Quality Forecasting Data and Tools
NASA's Applied Remote Sensing Training Program
Certification: In Progress
 5. Introduction to NASA Resources for Climate Change Applications
NASA's Applied Remote Sensing Training Program
Certification: In Progress
 6. Duke of Edinburgh Award (Bronze Standard)
 7. International English Language Testing System (IELTS): Overall Band Score: 7.5

Technical Skills:

Skilled in research area software like **ArcGIS, ENVI, SNAP QGIS, RClindex, ILWIS, Sentinel Toolbox 1,2,3, ERDAS IMAGINE** and capable of using other GIS and cartographic software Compatible with **Inferential and descriptive statistical** analysis with **SPSS and R software** and different statistical analysis methods

Project work experience with **Practical action, UNDP, Action Aid** during my graduation. Skilled in **professional level qualitative and quantitative sustainability analysis**, data quality management

Basic knowledge about **Python, MATLAB AND C programming** and **Linux** environment familiarity. Highly acquainted with all aspects of research methodology, data collection and refining, qualitative and quantitative questionnaire assessment, referencing using **Mendeley**.

Advanced level of **technical writing skills** which encompasses **proposal writing, fund management** for research, writing paper according to **Scientific Journal standard**. App creation for **UNDP sponsored Shake it App creation competition**

References:

1. Professor Dr. A. S. M. Maksud Kamal, Pro-Vice Chancellor (Academic), University of Dhaka, Email: maksudkamal@du.ac.bd
2. Dr. Md. Imdadul Hoque, Vice Chancellor, Jagannath University, Email: mimdadul07@yahoo.com, 3. Dewan Md. Enamul Haque, Associate Professor, Department of Disaster Science and Management Faculty of Earth and Environmental Sciences ; Email: dewan.dsm@du.ac.bd
4. Distinguished Prof. Dr.Biswajeet Pradhan, Director: Centre for Advanced Modelling and Geospatial Information Systems (CAMGIS), UTS, Australia ; Email: Biswajeet.Pradhan@uts.edu.au 5. Tapas Ranjan Chakraborty, ICT & Development Coordinator Oxfam, Dhaka 1206, Bangladesh ; Email: TChakraborty@oxfam.org.uk

