

HASAN AHMED

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House No. 82, Dakshin Kanishail, Dhakadakshin, Golapgonj, Sylhet 3161

EDUCATION

- 2015-2017 **Shahjalal University of Science and Technology, Sylhet**
M.Sc. (Thesis) in Forestry
CGPA = 3.90 (Scale = 4.00)
- Thesis: “Assessing spatio-temporal changes in forest structural attributes at Lawachara National Park, Bangladesh.”
- 2011-2014 **Shahjalal University of Science and Technology, Sylhet**
B.Sc. in Forestry
CGPA = 3.52 (Scale = 4.00)
- Research Project: “Detecting tree richness hotspots using species area relationship to compare with land-covers and forest composition of Rema-Kalenga Wildlife Sanctuary, Habiganj, Bangladesh.”

RESEARCH INTEREST

I am interested in the research on forest and natural resources using new Remote Sensing and GIS tools. I am particularly interested in the research of the spatial and temporal change in forest vegetation cover, and land-use. Also, I would like to study the effect of climate change on the forest structure and resources.

EXPERIENCE

- Aug 2017 – Present Course Instructor
Forestry Science and Technology Institute, Sylhet
Ministry of Environment, Forest and Climate Change
Involved in the teaching for Forestry diploma courses. Conducted classes, labs, set assignment and exam on Forest Silviculture, Geographic Information System, and Forest Inventory courses
- Feb 2016 Field Assistant
Centre for Advanced Research in Natural Resources & Management, Dhaka
Participated in the field survey of saltwater crocodile survey in Sundarbans Mangrove Forest by collecting physical information of the crocodile, geolocation and the microclimatic data of the place they were found.

Oct 2015 –
Dec 2015

Research Intern

Creative Conservation Alliance, Dhaka

Developed the distribution map of pythons in Bangladesh using GIS data. Created species distribution maps of pythons along with different forest types and water body.

PRESENTATIONS

Md. Akhter Hossain, **Hasan Ahmed**, Md Zakiur Rahman, and Md. Rafsan Hussain. 2018. 1) Orthophoto Mosaic Development of Forest Area from UAV Images. 2) UAV Application for Forest Cover Types Classification: A Case Study from AIT, Thailand. 3) UAV Application for Forest Carbon Estimation: A Case Study from AIT, Thailand. In: *Capacity building for RS and GIS researchers on the use of UAV images and its application in food security, forestry, and mangrove*. Dhaka, Bangladesh

SKILLS

RS-GIS Software:	Digital Mapping and Spatial data analysis using ArcGIS and QGIS software. Satellite imagery analysis, processing, classification and data extraction on ArcGIS, QGIS, ERDAS IMAGINE, and ENVI software.
3D Point Cloud:	The generation of 3D Dense Point Cloud and the development of Digital Elevation Model, Orthophoto mosaic, and Canopy Height Model from digital aerial photographs using Agisoft Photoscan software.
Statistical Analysis:	Statistical Analysis and modelling for ecological studies using R, MATLAB, and SPSS.
Microsoft Office:	Microsoft Word, PowerPoint, Excel, Outlook and Access
Microsoft Visual Studio:	Software development using Visual Basic programming language and .NET framework. Development of website and web application using Visual Studio.
Graphics Design:	Efficient in Poster, Flyer, Banner, Logo and Info Graphics design using Adobe Photoshop and Adobe Illustrator.
Web Development:	HTML5, CSS, WordPress, Limited in PHP.

TRAININGS AND WORKSHOPS

Aug 2017-
Apr 2018

Tailor-made training on the use of UAV Images and it's Applications in natural resource management of Bangladesh

Conducted by: ITC Faculty of Geoinformation Science and Earth Observation, University of Twente, Netherlands

Organized by: Bangladesh Centre for Advanced Studies, Gulshan-1, Dhaka, Bangladesh

- Jun 2014 **Ecology, Status, and Conservation of Python and Tortoise; Radio Tracking of Pythons and Tortoise**
Organized by: Bangladesh Python Project (Creative Conservation Alliance)
- Jan 2014 **Bat Conservation and Research Techniques**
Conducted by: Neil Fury, Ph.D., Head of Academic Development, Fauna & Flora International – Cambodia Program
Chittagong Veterinary and Animal Science University, Chittagong, Bangladesh
- Sep 2013 **Training on SPSS and MATLAB software**
Conducted by: Mohammad Redowan, Faculty Member, Department of Forestry and Environmental Science, Shahjalal University of Science and Technology, Bangladesh
Organized by: Department of Forestry and Environmental Science, Shahjalal University of Science and Technology, Sylhet-3161, Bangladesh
- Dec 2012 **Birds of Tanguar Haor: Species Diversity, Habitat Utilization, and Conservation Initiatives through Local Community**
Organized by: Green Explore Society
Shahjalal University of Science and Technology, Sylhet, Bangladesh

LANGUAGE

Proficient in both English and Bengali.

EXTRACURRICULAR ACTIVITIES

- Mar 2014 – Apr 2015 **President, Green Explore Society**
Shahjalal University of Science and Technology, Sylhet, Bangladesh
My responsibilities were to administer the organization with objectives to promote public awareness for nature conservation as well as to conduct research and studies on nature and environment, involving students of the university from various departments.
- Jan 2014 – Jul 2015 **Vice President and Co-Founder, Golap-Bandhan Student Association**
Shahjalal University of Science and Technology, Sylhet, Bangladesh
I am one of the founding members of this organization which aim for the welfare of the students, who come from a specific community. Lead the student meetings, managing the programs, and activities were my key responsibilities.