

# Hasan Ahmed

Hengelosestraat 99, Box No 403, 7514 AE, Enschede, The Netherlands  
h.ahmed@student.utwente.nl | <https://ahmedhasan.info> | +31633426216

## Education

---

University of Twente, Enschede, The Netherlands (Expected) July 2021  
***Master of Science in Geo-information Science and Earth Observation*** Current CGPA: **8.0/10**  
Faculty of Geo-information Science and Earth Observation (ITC)

Shahjalal University of Science and Technology, Sylhet, Bangladesh July 2016  
***Master of Science in Forestry (Thesis)*** CGPA: **3.90/4.00**  
Department of Forestry and Environmental Science **With Distinction**  
*Thesis: "Assessing spatio-temporal changes in forest structural attributes at Lawachara National Park, Bangladesh."*

Shahjalal University of Science and Technology, Sylhet, Bangladesh 2014  
***Bachelor of Science in Forestry (Honours)*** CGPA: **3.52/4.00**  
Department of Forestry and Environmental Science  
*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

---

The primary research focus is on finding innovative natural resources solutions (especially on forests) for management measurement, monitor, decision-making by providing information through remote sensing. The ultimate goal is to contribute with innovative information and research for the UN sustainable development goals (e.g., climate action, life on land) and the UN REDD+ MRV systems. Research activities are highly relevant to the estimation of forest carbon and biomass, the spatial and temporal change in forest vegetation (canopy) cover, forest ecology, forest disturbance (degradation) and land-use.

Career persuasion aim is to develop a skilful professional in the geo-information science field of natural resources, environment, and climate change.

## Research Experience

---

***Research Assistant*** Jan 2018 – Dec 2018  
Centre for Ecology, Environment, and Evolution  
**Faculty of Science, University of Lisbon, Portugal**  
Involved in the analysis of Remote Sensing and GIS data, conducting fieldwork, drafting and submitting reports of works to the relevant researcher of the doctoral program of Climate Change and Sustainable Development Policies.

## Teaching Experience

---

### ***IELTS Instructor***

Mar 2019 – July 2019

FM Method, Sylhet Campus

Key responsibilities were to train candidates on different modules of IELTS test (Listening, Reading, Writing, and Speaking), to prepare course materials, to conduct practice tests.

### ***Course Instructor***

Aug 2017 – Jan 2018

Forestry Science and Technology Institute, Sylhet

Ministry of Environment, Forest and Climate Change, Bangladesh

Involved in the teaching for Forestry diploma courses. Conducted classes, labs, set assignment and exam on Forest Silviculture, and Forest Inventory courses.

## Internship

---

Centre for Advanced Research in Natural Resources & Management, Dhaka

Feb 2016

### ***Volunteer***

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.

Creative Conservation Alliance, Dhaka

Oct 2015 – Dec 2015

### ***Research Intern***

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.

## 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. |
| UAVs Remote Sensing:  | Generating 3D Dense Point Cloud, DEM, DTM, Multispectral and RGB Orthophoto mosaic, and Canopy Height Model from digital aerial photographs taken through UAVs using Agisoft Photoscan software.        |
| Statistical Analysis: | Statistical Analysis and modelling for ecological studies using R, and SPSS.  |
| Database Management:  | MySQL, Access, ESRI Geodatabase, Personal Geodatabase, File Geodatabase.  |
| Microsoft Office:     | Microsoft Word, PowerPoint, Excel, Outlook and Access   |
| Coding:               | Software development using Visual Basic (VB), basic on Python, web development using HTML & CSS, and limited in PHP   |

## Awards and Scholarships

---

|   |           |
|---|-----------|
| <b><i>ITC Excellence Scholarship</i></b><br>University of Twente, Enschede, The Netherlands<br>For the MSc in Geo-information Science and Earth Observation Program.  | 2019-2021 |
| <b><i>The Holland Scholarship</i></b><br>University of Twente, Enschede, The Netherlands<br>For the MSc in Geo-information Science and Earth Observation Program. The scholarship is financed by the Dutch Ministry of Education, Culture and Science                       | 2019-2020 |
| <b><i>Erasmus Mundus Scholarship (Selected)</i></b><br>European Union (ERASMUS+)<br>Was offered for the Master Degree in Mediterranean Forestry and Natural Resources Management (MEDfOR). Ranked 14 out of 23 first selected international candidates for the scholarship. | 2019-2021 |

## Presentations

---

### ***Poster Presentations***

|  |          |
|--|----------|
| 1a) Orthophoto Mosaic Development of Forest Area from UAV Images.  | Apr 2018 |
| 1b) UAV Application for Forest Cover Types Classification: A Case Study from AIT, Thailand.  |          |
| 1c) UAV Application for Forest Carbon Estimation: A Case Study from AIT, Thailand.   |          |
| <b>In Workshop:</b> Capacity building for RS and GIS researchers on the use of UAV images and its application in food security, forestry, and mangrove. Dhaka, Bangladesh. |          |
| 2) Morphological change detection caused by seasonal monsoon and cyclones in the coast over time: a case study on Bangladesh delta   | Apr 2019 |
| <b>In Conference:</b> European General Assembly, 2019  |          |

## Training and Workshops

---

|   |                    |
|---|--------------------|
| <b><i>Tailor-made training on the use of UAV Images and its Applications in natural resource management of Bangladesh</i></b><br>Conducted by: ITC Faculty of Geoinformation Science and Earth Observation, University of Twente, Netherlands<br>Organized by: Bangladesh Centre for Advanced Studies, Gulshan-1, Dhaka, Bangladesh | Jul 2017, Apr 2018 |
| <b><i>Workshop on Ecology, Status, and Conservation of Python and Tortoise; Radio Tracking of Pythons and Tortoise</i></b><br>Bangladesh Python Project, Creative Conservation Alliance   | Jun 2014           |
| <b><i>Training on SPSS and MATLAB software</i></b><br>Department of Forestry and Environmental Science,<br>Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh  | Sep 2013           |