

CURRICULUM VITAE

AL JUBAER

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DATE OF BIRTH

05 August 1994

ADDRESS

68 Shaheed Tajuddin Ahmed Sarani | Mohakhali | Dhaka 1212 | Bangladesh

Tel: [+8801919500780](tel:+8801919500780)

e-mail: dw.al.jubaer@icddr.org, orunjubaer@gmail.com, ajubaer@asu.edu

PRESENT POSITION

Senior Research Officer, Population Science, Health Systems and Population Studies Division, icddr,b, Dhaka, Bangladesh.

EDUCATION

- 2018-2020 : MSc (Master of Science) in Computer Science and Engineering, Royal University of Dhaka. (weekend Master's Program), Thesis Title: *Sensor Technology for Global Positioning and Identification in Universal Computing System*. Supervisor: Mosarrof Hossain.
- 2017-2018 : MSc (Master's) in Geography and Environment, Jahangirnagar University. Thesis Title: *An Assessment of Sea Surface Temperatures in The Bay of Bengal, A GIS And Remote Sensing Based Case Study*. Supervisor: Professor Dr. Sheikh Tawhidul Islam
- 2014-2014 : BSc (Hons) in Geography and Environment, Jahangirnagar University. Thesis Title: *Rapid Populations Growth and Land Use / Land Cover Changes (A Case Study on Kamrangirchar Thana Dhaka Metropolitan Area)*. Supervisor: Professor Dr. Sheikh Tawhidul Islam.

PROFESSIONAL EXPERIENCE

- Jan 2025 to Present : Senior Research Officer, Population Science, Health Systems and Population Studies Division, icddr,b, Dhaka, Bangladesh.
- Sept 2024 to Jan 2025 : Research Consultant (Geo-spatial), School of Engineering and Technology (SET), Asian Institute of Technology (AIT), Bangkok, Thailand. (Remote Job)
- Aug 2021- Aug 2023 : Project Officer (SERVIR-HKH), Institute of Remote Sensing and GIS, Jahangirnagar University, Dhaka, Bangladesh. (On-Site)
- Dec 2020-Jul 2021 : Geo-spatial Data Analyst, Science Connect Ltd., Dhaka Bangladesh. (Remote Job)
- Sept 2020- Nov 2020 : Research Assistant, Disaster Management Watch, Dhaka, Bangladesh. (On-Site)
- Sept 2019- Aug 2020 : Project Associate, Institute of Remote Sensing and GIS, Jahangirnagar University, Dhaka, Bangladesh. (On-Site)
- Sept 2018-Aug 2019 : Remote Sensing Expert, Projection of Climate and Developing a Dashboard for Vulnerability and Risk Calculation and Spatial Data Management. Institute of Remote Sensing and GIS & UNDP. (On-Site)
- July 2018-Aug 2018 : Data Enumerator, Automation Process Registration through tablet PC, Manabik Shahajya Sangstha, Save the Children. (On-Site)
- Aug 2017- June 2018 : Research Assistant, Institute of Remote Sensing and GIS, Jahangirnagar University, Dhaka, Bangladesh. (On-Site)

SELECTED PROJECTS

- Jan 2025 to Present : *Developing an Open-source Software Application for Community Level Cholera Outbreak-Risk Prediction and Feedback through Early Warning Systems (CholOut-EWS)*, Wellcome Trust | Grant Amount: USD 559,434 | Award Date: 25/01/2023.
Role: Senior Research Officer, Population Science, Health Systems and Population Studies Division, icddr,b, Dhaka, Bangladesh.
- Sept. 2024 to Jan 2025 : *Project Title: IOM RICD project geospatial data analysis of Climate Risk and Displacement for Indonesia. Climate hazards, Exposure and vulnerability.*
Role: Research Consultant (Geo-spatial), School of Engineering and Technology (SET), Asian Institute of Technology (AIT), Bangkok, Thailand.
- Aug 2021-Jul 2024 : *Project Title: Implementation of SERVIR-HKH services in Bangladesh and institutional capacity building of IRS-JU.*
Role: Project Officer, Institute of Remote Sensing and GIS & ICIMOD
- March 2023 to Feb 2024 : *Project Title: Quantitative evaluation of spatial and temporal urban scale air quality using satellite images and verification by on-ground air quality sensor monitoring.*

Oct 2023 to Sept 2024	: Research Engineer , United International University : <i>Project Title: Biodiversity Assessment and Carbon Stock Estimation Using UAV (Unmanned Aerial Vehicle) in Jahangirnagar University.</i>
June 2022 to June 2023	: Project Associate , Institute of Remote Sensing and GIS (IRS) : <i>Project Title: Urban Heat Island Effect and Building Density: A Geospatial Inquiry on Rangpur City Corporation.</i>
June 2022-June 2023	: Research Assistant , IRS & Ministry of Science and Technology : <i>Project Title: An Assessment of the Causes and Consequences of Landslides (2017) in Southeastern Parts of Bangladesh.</i>
June 2022 to June 2023	: Research Assistant , IRS & Ministry of Science and Technology : <i>Project Title: Citizen Science for Reduction of Flood Vulnerability in Selected Districts of Bangladesh: Development of Geospatial Database Involving Local Youth and Performing Actions towards Flood Risk Management.</i>
Jan 2023 to Dec 2023	: GIS and Remote Sensing Expert , IRS & Ministry of Science and Technology : <i>Project Title: Strategy and Road Map for BIWTA on Sustainable Non-Perishable Single Use Plastic Management Plan in River Port Areas and Action Plan for Plastic Contamination Free Waterways.</i>
Jan 2023 to Dec 2023	: Research Assistant , Institute of Remote Sensing and GIS & BIWTA : <i>Project Title: Assessing the Impacts of Climate Change on Microfinance Ecosystem in Bangladesh.</i> Research Assistant, Institute of Remote Sensing and GIS & MRA
Jane 2023 to Dec 2023	: <i>Project Title: Child Labor Action Research Innovations in Southern and South-Eastern Asia.</i> Geospatial Data Analyst , Science Connect Ltd. and Save the Children.
Jan 2023 to Dec 2023	: <i>Project Title: The Climate Innovation Challenge – Innovation for Climate Adaptation and Resilience OUSA Project Replicability in Bangladesh.</i> Geospatial Data Analyst Science Connect & AIT, Thailand
Jan 2023 to Dec 2023	: <i>Project Title: Projection of Climate and Developing a Dashboard for Vulnerability and Risk Calculation and Spatial Data Management.</i> GIS Expert, Institute of Remote Sensing and GIS & UNDP.
Jul 2023 to Jun 2023	: <i>Project Title: Preparation of Ward Poverty Atlas and Urban Poverty Profile for 09 Cities.</i> Research Assistant, DM Watch and UNDP.
Jan 2022 to Dec 2022	: <i>Project Title: Do perception factors affect adaptation behaviors against air pollution among vulnerable occupation groups? Evidence from Chittagong and Dehradun.</i> Database Developer, Science Connect & TDH.

TEACHING EXPERIENCE

April 2024	: <i>Localization in empowering community towards resilience.</i> Trainer , CARN-AP & PRISM, India
29 May 2024	: <i>Exploring Geospatial Technologies: Training on OSM, HOT OSM, and Mapillary.</i> Trainer , Youth Mappers at IRS, Jahangirnagar University
30 Jul-2 Aug, 2023	: <i>Advanced GIS and Remote Sensing Training Program.</i> Instructor , Institute of Remote Sensing and GIS (IRS)
8 Mar 2023	: <i>International Women's Day Special Mapathon Empowering Women in Geospatial Technologies.</i> Instructor , Youth Mappers at IRS, Jahangirnagar University.
16 Oct, 2022	: <i>Visualization workshop with the children for analyzing journey mapping.</i> Instructor , CLARISSA Project, Terre des hommes
23-31 Mar 2019	: <i>2nd specialized training course on Applications of GIS and Remote Sensing.</i> Instructor , Institute of Remote Sensing and GIS (IRS).
05-9 Jul 2019	: <i>2nd Training on Google earth Engine (GEE).</i> Instructor , Institute of Remote Sensing and GIS (IRS).
30 Nov-15 Dec 2018	: <i>Training program for Professionals on Remote Sensing (RS) and Geographic Information System (GIS).</i> Trainer Assistant, Institute of Remote Sensing and GIS (IRS)
14-15 Sept 2018	: <i>Training on Geographic Information System and Remote Sensing,</i> Instructor , Institute of Remote Sensing and GIS (IRS)
29 Jul to 2 Aug 2018	: <i>Training on "Geospatial Applications for Women.</i> Instructor , Institute of Remote Sensing and GIS (IRS)
12-16 May 2018	: <i>Certificate course on "Remote Sensing.</i> Instructor , Institute of Remote Sensing and GIS (IRS)

22-30 Apr 2018	: Certificate training course on “Application of GIS and Remote Sensing in Military navigation and Mapping” (specially for Bangladesh Army). Instructor , Institute of Remote Sensing and GIS (IRS)
16-22 Feb 2018	: Certificate training course on “Basic GIS and Remote Sensing. Instructor , Institute of Remote Sensing and GIS (IRS)
16-22 Feb 2018	: Training on “Basic Understanding of Geospatial Technologies. Instructor , Institute of Remote Sensing and GIS (IRS)
08-12 Dec, 2017	: Training on Spatial Analysis using “R”. Instructor , Institute of Remote Sensing and GIS (IRS)

AREA OF INTEREST

GIS & REMOTE SENSING	: • Spatial Analysis & Modeling • Satellite Image Processing • Land Use/Land Cover Mapping • Digital Elevation Models (DEM) Analysis • Disaster Risk Management (Flood, Drought, Cyclone, SST, LST) • Drone Mapping and UAV Data Integration • Forest Cover and Carbon Stock Assessment • Precision Agriculture and Crop Monitoring • Geo-statistics & Data Visualization
GRAPHICS & MOTION DESIGN	: • Data-Driven Infographics • 3D Modeling for Geospatial Applications • Animated Maps & Geo-visualizations • Storyboarding and Motion Graphics for Spatial Narratives • Interactive Web Mapping Applications • Branding and Logo Creation for GIS-related Projects • Video Editing for Explaining Geospatial Concepts
SPECIAL INTERESTS	: • Climate Change Monitoring • Smart Cities & Infrastructure Development • Machine Learning in Geospatial Analysis

RESEARCH AND PUBLICATION

PUBLISHED PUBLICATIONS

- 2025 Dey, A., Islam, S. T., Bandyopadhaya, S., Sanyal, N., **Jubaer, A.**, & Mishra, D. (2024). Resilience Starts Locally: Enhancing Sustainability Through Localization in Humanitarian Response. Springer Nature, 1, 1–10.
https://doi.org/10.1007/978-981-96-2139-2_13
- 2025 Mondal, K. P., **Jubaer, A.**, Samad, S., Sarkar, M., Rahman, S. H., Islam, S. T., & Talukder, B. (2025). Wetlands of Bangladesh. In Wetlands of Tropical and Subtropical Asia and Africa (pp. 19–39). Wiley.
<https://doi.org/10.1002/9781394235278.ch2>
- 2025 **Jubaer, A.**, Hossain, R., Ahmed, A. et al. Factors influencing spatiotemporal variability of NO2 concentration in urban area: a GIS and remote sensing–based approach. Environ Monit Assess 197, 167 (2025).
<https://doi.org/10.1007/s10661-024-13531-z>
- 2024 Sheikh Tawhidul Islam; Md. Hiru Miah; **Al Jubaer**; Krishna Prosad Mondal; Md. Munir Mahmud, “An Assessment of the Causes and Consequences of Landslides (2017) Occurred in the Southeastern Areas of Bangladesh,” p. 16, 2024. [10.3329/jscitr.v5i1.74011](https://doi.org/10.3329/jscitr.v5i1.74011).
- 2024 Aniruddha Dey, Sheikh Tawhidul Islam, Swarnabha Bandyopadhaya, **Jubaer, A.**, Md. Asadujjaman, *Resilience Starts Locally: Enhancing Sustainability Through Localization in The Deltaic Regions Of Bengal Basin.* 3rd International Symposium On Disaster Resilience And Sustainable Development 2023, Bangkok, Thailand.
- 2022 Dey A, Islam ST, Paul B, **Jubaer, A.**, et al. *Waterlogging mitigation and safe water supply: lessons learnt from low-lying areas of Basirhat municipality, India.* Int J Disaster Resil Built Environ. Published online 2022.
[doi:10.1108/ijdrbe-08-2021-0106](https://doi.org/10.1108/ijdrbe-08-2021-0106).
- 2022 D. Chakraborty, K. Prosad, and **Jubaer, A.**, *Health impacts of rapid-onset event: 2022 flash flood in Bangladesh*, no. i. Elsevier Inc., 2022. [doi: 10.1016/B978-0-443-18515-1.00004-6](https://doi.org/10.1016/B978-0-443-18515-1.00004-6).

CONFERENCE PROCEEDINGS

- 2023 Krishna Prosad Mondal, Sheikh Tawhidul Islam, Nandini Sanyal, Sakib Rahman Siddique Shuvo, Munir Mahmud, Dibakar Chakraborty, Md. Hiru Miah, Al Jubaer. "Engaging Youth in Flood Risk Management: A Citizen Science Geospatial Initiative in Bangladesh." 3rd International Symposium On Disaster Resilience And Sustainable Development 2023, Bangkok, Thailand.
- 2023 Aniruddha Dey, Sheikh Tawhidul Islam, Swarnabha Bandyopadhyaya, Md. Asadujjaman, Al Jubaer Resilience Starts Locally: Enhancing Sustainability Through Localization in The Deltaic Regions Of Bengal Basin." 3rd International Symposium On Disaster Resilience And Sustainable Development 2023, Bangkok, Thailand.
- 2023 Jubaer. A, Islam St, Bandyopadhyay S. Temporal and Spatial Analysis Of Sea Surface Temperature In The Bay Of Bengal: A Comprehensive Study From 1999 To 2018. Published Online 2023.

ONGOING PUBLICATIONS

- 2024 M.M Rahman, S.h Rahman, S.t Islam, K.P Mondal, Jubaer. A (2024), Assessment of Timber Species Diversity And Carbon Stock In Jahangirnagar University Campus Area.

BOOK CHAPTER

- 2025 Mondal, K. P., **Al-Jubaer**, Samad, S., Sarkar, M., Rahman, S. H., Islam, S. T., & Talukder, B. (2025). Wetlands of Bangladesh. In Wetlands of Tropical and Subtropical Asia and Africa (pp. 19–39). Wiley. <https://doi.org/10.1002/9781394235278.ch2>
- 2022 D. Chakraborty, K. Prosad, And A. Jubaer, Health Impacts Of Rapid-Onset Event: 2022 Flash Flood In Bangladesh, No. I. Elsevier Inc., 2022. [Doi: 10.1016/B978-0-443-18515-1.00004-6](https://doi.org/10.1016/B978-0-443-18515-1.00004-6).

NATIONAL AND INTERNATIONAL RESEARCH AND REPORTS

1. Participatory GIS Based Risk Mapping.
2. Preparation of Ward Poverty Atlas and Urban Poverty Profile.
3. Scoping Assessments of MPDS Project.
4. Strategy and Road Map for BIWTA on Sustainable Non-Perishable single use plastic Management plan in River port areas and action plan for plastic contamination free water ways. 2022.
5. An Assessment of the Causes and consequences of Landslides (2017).
6. Citizen Science for Reduction of Flood Vulnerability in selected District of Bangladesh
7. Urban Heat Island and Building Density Rangpur City.

BROCHURE DESIGN

1. Insitute Of Remote Sensing and Gis, Jahangirnagar University Brochure 2023.
2. Pirganj Upazila, Rangpur, Development Brochure 2023
3. Science Connect Ltd. Brochure 2023.
4. Institute of Remote Sensing And GIS, Admission 2022 Prospectus.
5. Bangladesh Biodiversity Atlas July 2021.
6. Bangladesh From the Space 2022.
7. Bangladesh Wetland Atlas 2023.

PROFESSIONAL MEMBERSHIP & AWARDS

1. Institute of Electrical and Electronics Engineers (IEEE), General Member, 2022
2. CARN-AP, Climate Action Resources Network- Asia Pacific, Founding Member, 2022
3. Youth Mappers at IRS, Jahangirnagar University Chapter Founding, President, 2017
4. Jashore District Students Welfare Association, Jahangirnagar University 2018, Vice President
5. Mapillary 3rd Position Globally Mapping Contribution, Mappillary Global, Contribution, 2017
6. Open Data Day Mapathon Compitition Winner 2022, Open Mapping Hub, Asia-Pacific, Champion, Bangladesh Part
7. South Asia Mapathon Runners up Open Mapping Hub, Asia-Pacific, Runners up
8. Community Mapping Winner Open Mapping Hub, Asia-Pacific, Winner
9. World Environment Day 2022 Mapathon Bangladesh Open Innovation Lab (BOIL), Winner

PROFESSIONAL & PERSONAL SKILLS

GIS, REMOTE SENSING & WEB GIS DEVELOPMENT

SOFTWARE OR TOOLS	GeoServer, Postgres, PostGIS, OpenLayer, Leaflet, Django, React, ArcGIS Pro, QGIS, VS Code, Bootstrap, JavaScript, HTML, CSS, Database, PHP
GIS PROGRAMMING	Python, JavaScript, Google Earth Engine.
WEB GIS LIBRARY	Leaflet JS, MapBox
GIS & RS FUNDAMENTALS	ArcMap, ArcGIS Pro, QGIS, Erdas Imagine, ArcScene, ArcGlobe, Google Earth, Google Earth Engine (GEE)
WEB GIS DATABASE	Oracle, MySQL, PostgreSQL, MongoDB, PostGIS
GIS & REMOTE SENSING	Labelling, Creating GIS maps, Digitizing, Geo Referencing, Analyzing spatial data, Spatial model maker, Raster Image, Classification, NDVI, Digital Elevation Models, slope study maps model making, Color composite images, Layer Stacking Image Enhancement, Supervised, Classification, Unsupervised Classification, Image Filters, Texture Analysis.

GRAPHICS & UI UX DESIGN

SOFTWARE OR TOOLS	Adobe Photoshop, Adobe Illustrator, Adobe Indesign, Adobe XD, Figma, Canva
ILLUSTRATOR	Presentation, Invoice, Letterhead, Brochure, Logo, Desk & Wall Calendar, Product Packaging, Certificate, T-Shirt, Resume & Cover Letter, Landscape Design, Image Clipping, , Banner / Poster, Magazine , Web Banner, Web UI Design, Business Card , Letter Head, Stationery & Logo Design. News Paper Ads, Social, Media Post ads, Web Banner, Vehicle Wraps, Rollup Banner
PHOTOSHOP	Social Media content, Business Card, Magazine, Image, Retouch, Clipping Path, Color Correction, Banner Design, Flayer Design, Image Background Remove, Image Restore, Calendar Design, Image Masking, Photo Editing, Heir Masking.
INDESIGN	E-book Formatting, E-book Design, Planner, Workbook, Magazine, Catalog, Booklet, White Paper, Recipe Book, Book Formatting, Company Proposal, Book Pagination, Editing/changes CV/Resume design, Cover Page, Formatting, E-book cover, PDF design, Lead magnet, Book cover design.

WEB DEVELOPMENT & PROGRAMMING

WEBSITE & INTERNET THINK	DOMAIN, HOSTING, HTTP, DNS, C-PANEL CONTROL
CODE EDITOR	VS CODE, BRACKET, NOTEPAD++
VERSION CONTROL	GITHUB, GITLAB
BACK-END WEB DESIGN	NODE JS, JAVASCRIPT, PYTHON-DJANGO
WEB DESIGN FRAMEWORK	CSS: BOOTSTRAP, JAVASCRIPT: REACT
PYTHON LIBRARIES	NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scrapy, GeoPandas, Arcpy, GDAL, OGR, RSGISLib, Pyproj, Ipyleaflet, Geemap, LiDAR, Scikit, Geemap
BROWSER	CHROME, FIREFOX, EDGE
WEB DESIGN LANGUAGE	HTML, CSS, BOOTSTRAP, JAVASCRIPT
DATABASE	SQL SERVER, POSTGRES, MY SQL, MONGODB

SURVEYING & DATA COLLECTION

SURVEY PLATFORM	ArcGIS Survey123, KoboCollect, Google Form
ONLINE MAP EDIT	Google Map, OpenStreetMap Mapbox
SOFTWARE	MS Word, Excel, PowerPoint, Access, Google Slide, Google Documents, Notepad
OFFICE SKILLS	Typing content from (PDF, Image, Scanned Images) to Word or Excel, Pdf to Word Conversion Manually for All Types of Books. Convert Handwritten Text into word or excel, manually typing work into Excel/Word Documents, Copy typing from Website to Word or Excel., Business card Details in Excel/Word, Convert PDF to Excel & Word, Typing according to the given format., Data Collection from Web, Document Conversion

MOTION GRAPHICS AND VIDEOGRAPHY

SOFTWARE AND TOOLS	Adobe After Effects, Adobe Premiere Pro, Maxon Cinema 4D, Cinema4D, ArcScene, ArcGlobe, Blender, Maya, Civil3D, Pix4DMapper, AgisSoft, After Effect.
MOTION GRAPHICS SKILLS	2D Motion Graphics, Social Media Ads, Animated Explainer Video, Video Editing, 3D Motion Graphics, White board animation, Video Resume, Logo Animation
MOTION GRAPHICS EXTRA FEATURE	Video Editing and Color Grading, Motion Graphics, & Elements Visual Effects, Title & Text Animation, Openers Intros & Outros, Lower Thirds, (For All Platforms), Video Subtitles

TRAINING, WORKSHOP, SEMINARS AND CONFERENCE IN SPECIAL SUBJECTS IN VARIOUS INSTITUTES ROLE AS PARTICIPANTS & VOLUNTEER

20 May 2024	: Youth Mappers Annual Gathering: 2023 Recap & Future Pathways Institute of Remote Sensing and GIS, Participants
26 January 2024	: Youth Mappers Conference on Geospatial Technology in Action. Institute of Remote Sensing and GIS, Participants
May 2024	: PowerPoint Masterclass, Bohubrihi, Participants
January 2024	: Typing Test, Typingtest.com, Participants
May 2024	: Earth observation for improving forest carbon estimation and degradation monitoring in Bangladesh, ICIMOD, Nepal, Participants
December 2023	: Make CV in Professional Way, Bright Skills, Participants
November 2023	: Be Professional with LinkedIn, Bright Skills, Participants
May 2024	: Professionalize your LinkedIn Profile with ChatGPT, Bright Skills, Participants
29-30 Jul 2022	: Training on Digital Data Collection/analysis using Kobo Toolbox, ICIMOD, Kathmandu Nepal, Participants
26 Jul, 2022	: Mapping Day - 2022, Open Source Geospatial Technology in Wetland Management Institute of Remote Sensing and GIS, Jahangirnagar University, Participants
Oct 2022	: Big Geospatial Data Analysis with Google Earth Engine, Udemy, Participants
Sep 2022	: The Google Earth Engine Mega Course Remote Sensing and GIS, Udemy, Participants
Sep 2022	: Google Earth Engine for Machine Learning and Change Detection, Udemy, Participants
Oct 2022	: ArcGIS Desktop for Spatial Analysis Go from Basic To Pro, Udemy, Participants
Jul 2022	: Managing Map Layers in ArcGIS Pro Certificate, ESRI, Participants
Feb 2022	: Basic of AI, 10 Minute School, Participants
Mar 2022	: Microsoft office word Basic, 10 Minute School, Participants
Feb 2022	: Google Analyst, 10 Minute School, Participants
Jun 2022	: Kailash CAFE 2.0 Sharing knowledge of a sacred landscape, ICIMOD, Nepal, Participants
Sep 2022	: Certificate of Attendance EUMETSAT 2022, EUMETSAT, Participants
Aug 2022	: Illustrator Masters of Fundamentals, Bohubrihi, Participants
Dec 2022	: Mapping and Spatial Analysis with ArcGIS, Bohubrihi, Participants
Jan 2021	: HydroSAR Training: Extracting Flood Information from SAR, ICIMOD, Participants
Feb 2020	: Basic Graphic Design, 10 Minute School, Participants
Jul 2020	: Introduction to Remote Sensing, GeoUniversity, Participants
Jul 2020	: Introduction to GIS Mapping-1, Coursera, Participants
Sep 2018	: CCNA Routing and Switching, New Horizon, Participants
Aug, 2017	: Training on Google earth Engine (GEE), Institute of Remote Sensing and GIS, Participant,
Nov, 2017	: Training on Open Street Map (OSM), Institute of Remote Sensing and GIS, Participant & Volunteer
Oct 2016	: Citizen Responsibility and Society Development, Sheikh Hasina National Youth Center, Participants

1. **Sheikh Tawhidul Islam PhD (Durham, United Kingdom)**
 Professor
 Regional Centre for Space Science and Technology
 Education in Asia and the Pacific International
 Innovation Institute, Beihang University, China.
 e-mail: s.t.islam@juniv.edu
 t: +8801745566021 (WhatsApp)
 w: <https://tawhidulislam.com/>

2. **Professor Dr. M. Nazrul Islam**
 Director
 Institute of Remote Sensing and GIS,
 Jahangirnagar University, Bangladesh.
 e-mail: s.t.islam@juniv.edu
 t: +8801745566021 (WhatsApp)
 w: <https://tawhidulislam.com/>