Curriculum Vitae

Sabiha Sabrina
Ph.D. Student, Department of Geography
University of Florida, FL-32611, USA

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| ResearchGate |

Education

Doctor of Philosophy -Ph.D. (2024 -Present)
Major in Geography
Focus Area: Earth System Science
University of Florida
Gainesville, FL 32611, USA

Master of Science-Thesis (2021-2022)
Major in Physical Geography & Environment
Faculty of Earth & Environmental Science
University of Dhaka, Dhaka-1000,
Bangladesh
Result: CGPA 3.77 out of 4.00

Bachelor of Science (2019)
Major in Geography & Environment
University of Dhaka, Dhaka-1000,
Bangladesh
Result: CGPA 3.61 out of 4.00

Achievement and Awards
1. Achieved **Faculty of Earth and Environmental Science Scholarship** for the outstanding result, regular attendance, and advancement of satisfactory education in the BS Program (October 2021 – December 2022)
2. Received **Research Grants** for MS Thesis from National Science and Technology (NST) (October 2021 – December 2022)

Publication
Rabby, Y. W., Li, Y., Abedin, J., & **Sabrina, S.** (2022). Impact of land use/land cover change on landslide susceptibility in Rangamati municipality of Rangamati District, Bangladesh. *ISPRS International Journal of Geo-Information,* 11(2), 89. (https://doi.org/10.3390/ijgi11020089)

Roy, S., Nahar, S., **Sabrina, S.** Sumaiya, N., and Afzal, F. Mangrove dynamics in tropical deltas: An integrated study of Machine Learning-based approach and existing literature. (Intended for *Regional Studies in Marine Science*)

Research Experience
1. My Ph.D. research focuses on Compound Flooding, with an emphasis on understanding the frequency of occurrence and impacts of coastal-fluvial flood events **(Ongoing).**
2. Hydrological Studies on Flash Floods: A Case Study of Khowai River in Habiganj District, Bangladesh. (Master's Thesis)
3. Land use & Socio-economic Survey in Fakirhat Urban Area & Boiltali Mouza in Bagerhat, Khulna (**2019**)
4. Riverbank Erosion in Kalikanagar Project (**2019**)
5. Wetland of Bangladesh: A Study on Tanguar Haor and Arial Beel (**2018**)
6. Assessment of the Impacts and People's Adjustment with Flood 2017: A Study on Ulipur, Kurigram District (**2017**)
7. Environmental and Socio-Economic Analysis on Bhakurta Union, Savar (**2016**)

Professional Experiences

Dial Center in the UF

Designation: Teaching Assistant
Duration: August 2024 to Present
Responsibilities: Teaching one live section and a grader for one online section of Public Speaking Course

BENGAL INSTITUTE

Architecture, Landscape, Settlement

Designation: Jr. Research and Design Associate
Duration: August 2023 to June 2024
Research Project: Tree canopy identification using object-based classification.
Responsibilities: Identifying the vegetation coverage of Dhaka North and South City Corporation using remote sensing data and GIS technology.

GroupMappers (A Crowd Sourcing Initiative), Bangladesh

Designation: **Research Assistant**
Duration: November 2022 to June 2023.
Research Project: *Crisis Ready Project*
Responsibilities: Examine and analyze the mobility data from Facebook, Google, and Apple to ascertain population migration. Assessment of the demographic and geographic representativeness of this data. Moreover, helped with the development of necessary reports.
Designation: **GIS Analyst**
Duration: October 2020 to November 2022.
Research Project: *Risk Zone Mapping of Covid-19 Project*
Responsibilities: Generating maps and counting the number of cases the Dhaka City Corporation witnesses each day, creating a database of COVID-19 patient locations throughout Bangladesh, performing spatial analysis, and defining risk zoning regions for city corporations and district level.

Center for Environmental and Geographic Information Services (CEGIS)

Designation: **Technical Consultant**
Duration: February 2021 to May 2021
Research Project: *Delineation of Enumeration area (EA), Extraction Settlement Information and Mapping for Bangladesh Population Census-2021"*
Responsibilities: Creation of census database by using high-resolution satellite data (Komp Sat-1 & Komp Sat-2) and detection of land cover/land use changes.

Highlights of Qualifications

Remote Sensing: Application in river geomorphology, riverbed analysis, and hydrological analysis of rivers.
Proficient in ERDAS IMAGINE and Google Earth Engine, eCognition Developer.
Analytical: Experience in big data analysis, presentation, and attention to detail. Proficient in SPSS and **R programming language**.

GIS: Application fields including disaster resilience, public health, flood mapping, Land use zoning, Risk zoning, LULCC monitoring, Landslide susceptibility mapping, location analysis, thematic mapping, etc.
Proficient in ArcGIS Pro.

Synergic Activities

- Member of Open Street Map (Updating location and feature)
- Member of Environment Club, University of Dhaka
- Volunteer in Youth Ending Hunger Project, Bangladesh (YEH)
- Volunteer in Physically-challenged Development Foundation (PDF)

Reference

Dr. Katy Serafin
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Department of Geography,
University of Florida.
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Dr. Md. Abdur Rob
Professor (Former Department Head)
Department of Geography & Environment,
University of Dhaka.
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