ASHMA AKTER CHANDNI

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A Graduate student, and a Research Assistant in the Department of Environmental Engineering at Texas A&M University, Kingsville. Working as part of The H2I (Hydrology & Hydroinformatics Innovation) Lab. Experienced in Remote Sensing and GIS based analysis, Coastal hydrodynamics, Watershed hydrology, and Groundwater modeling.

Education

Texas A&M University, Kingsville — Expected Graduation: Jul 2023
Master of Science —Environmental Engineering — Current CGPA 4.0 out of 4.00

Bangladesh University of Engineering & Technology — Oct 2018
Bachelor of Science —Water Resources Engineering — CGPA: 3.84 out of 4.00

Employments

Graduate Research Assistant, Department of Environmental Engineering, Texas A&M University, Kingsville, Texas — Jan 2022 – Present

Lecturer, Department of Civil Engineering, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh. — Mar 2021 – Dec 2021

Lecturer, Department of Civil Engineering, Presidency University, Dhaka, Bangladesh. — May 2019 – Feb 2021

Intern, Bangladesh Water Development Board — Mar 2018

Research Experience

An Earth Observation-integrated Hydrologic Modeling Framework for Post-wildfire Water Resource Management (Funded by NASA) — Jan 2022 – Present

Low-Carbon Cementitious Materials for Artificial Reefs (Funded by Defense Advanced Research Projects Agency Small Business Innovation Research) — Jan 2022 – Present

A GIS-based DRASTIC model for assessing groundwater vulnerability in Magura and Narail districts of Bangladesh (Undergrad Thesis) — Jan 2018 – Sep 2018
– DRASTIC method was used to find out contamination vulnerability potential.
– Using ArcGIS for the spatial analysis

Feasibility Study of Excavation and development of 100-ft wide Khal along the both side of Purbachal link road (from Kuril to Balu river) (Funded by Government of Bangladesh) Mar 2021 – Dec 2021

Water Quality Parameter Testing of Drinking Water from Ramna Park, Dhaka (Course project) Aug 2017

Preparation of 2D models in HEC-RAS for hypothetical test cases (Course project) Oct 2020

Computer Skills

Engineering: **ArcMap, ArcSWAT**, **MIKE 21 FM**, MODFLOW, Rockworks, HEC-RAS, Matlab, Python, SAP, AutoCAD
Application: MS Word, Excel, Power point

Publications

Poster
Chandni A. A., Rajib A., (2022), Use of Remote Sensing-Based Curve Number for Hydrologic Modeling, Abstract (H25T-1365), AGU Fall Meeting, 2022

Conference proceedings
Chandni A. A., Rahman A., Yunus A. "Application of DRASTIC Method for Assessing Aquifer Vulnerability of Magura District of Bangladesh Using ArcGIS", 7th International Conference on Water and Flood Management - ICWFM 2019. ISBN: 978-984-34-6192-2, p. 165-166.

Involvements and Awards

- Dean's list scholarship, BUET
- University Merit Scholarship, BUET
- University Stipend, BUET
- Membership: Badhan BUET Zone (former), BUET Self Defense Club (former), Water Resources Engineering Student Association (WRESA)
- Former Child Journalist of Mass-Line Media Center